



# Acti 9

Low voltage  
The efficiency you deserve

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**Schneider**  
Electric



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Country approval pictogram

IEC/EN 61008-1

PB 10472-40



PB 10473-40

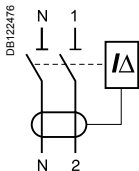
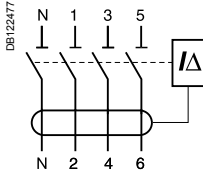


- The iID residual current circuit breakers provide:
  - protection of persons against electric shock by direct contact (30 mA),
  - protection of persons against electric shock by indirect contact (300 mA),
  - protection of installations against the risk of fire (300 mA).

The **SI** type provides increased immunity from electrical interference and polluted or corrosive environments.

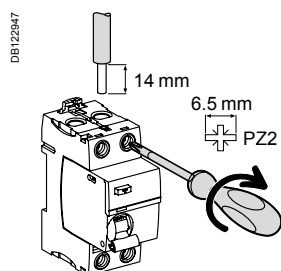
## Catalogue numbers

### iID residual current circuit breakers for 230/400 V network

| Type                                                                               |             | AC  | SI  |                                                                                              |          | Width in 9 mm module |  |
|------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------|----------------------|--|
| Auxiliaries                                                                        |             | See page 21                                                                            |                                                                                          |                                                                                              |          |                      |  |
| 2P                                                                                 | Sensitivity | 30 mA                                                                                  | 300 mA                                                                                   | 300 mA  | 30 mA    |                      |  |
|  | Rating 25 A | A9R71225                                                                               | -                                                                                        | -                                                                                            | -        | 4                    |  |
|                                                                                    | 40 A        | A9R71240                                                                               | -                                                                                        | -                                                                                            | -        |                      |  |
|                                                                                    | 63 A        | A9R71263                                                                               | A9R74263                                                                                 | A9R15263                                                                                     | A9R91263 |                      |  |
|                                                                                    | 80 A        | A9R11280                                                                               | A9R14280                                                                                 | A9R15280                                                                                     | -        |                      |  |
|                                                                                    | 100 A       | A9R11291                                                                               | A9R14291                                                                                 | A9R15291                                                                                     | -        |                      |  |
| 4P                                                                                 | Sensitivity | 30 mA                                                                                  | 300 mA                                                                                   | 300 mA  |          |                      |  |
|  | Rating 25 A | A9R71425                                                                               | -                                                                                        | -                                                                                            | -        | 8                    |  |
|                                                                                    | 40 A        | A9R71440                                                                               | -                                                                                        | -                                                                                            | -        |                      |  |
|                                                                                    | 63 A        | A9R71463                                                                               | A9R74463                                                                                 | A9R15463                                                                                     | A9R91463 |                      |  |
|                                                                                    | 80 A        | A9R11480                                                                               | A9R14480                                                                                 | A9R15480                                                                                     | -        |                      |  |
|                                                                                    | 100 A       | A9R11491                                                                               | A9R14491                                                                                 | A9R15491                                                                                     | -        |                      |  |
| Voltage rating (Ue)                                                                |             | 2P                                                                                     | 230 - 240 V                                                                              |                                                                                              |          |                      |  |
|                                                                                    |             | 4P                                                                                     | 400 - 415 V                                                                              |                                                                                              |          |                      |  |
| Operating frequency                                                                |             | 50/60 Hz                                                                               |                                                                                          |                                                                                              |          |                      |  |
| Accessories                                                                        |             | See page 94                                                                            |                                                                                          |                                                                                              |          |                      |  |

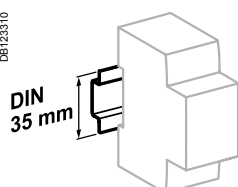
# iLD residual current circuit breakers (AC, A, S/I types)

## Connection

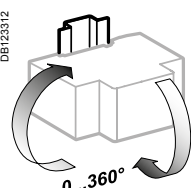


|      |                   | Without accessory                                                                                     |                                                                                                       | With accessories*                                                                                        |                                                                                                         |                                                                                                         |                        |
|------|-------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------|
| Type | Tightening torque | Copper cables                                                                                         |                                                                                                       | 50 mm <sup>2</sup> Al terminal                                                                           | Screw-on connection for ring terminal                                                                   | Multi-cables terminal                                                                                   |                        |
|      |                   | Rigid                                                                                                 | Flexible or with ferrule                                                                              |                                                                                                          |                                                                                                         | Rigid cables                                                                                            | Flexible cables        |
|      |                   | <div>DB122945</div>  | <div>DB122946</div>  | <div>DB122935</div>  Al | <div>DB118789</div>  | <div>DB118787</div>  |                        |
| iLD  | 3.5 N.m           | 1 to 35 mm <sup>2</sup>                                                                               | 1 to 25 mm <sup>2</sup>                                                                               | 50 mm <sup>2</sup>                                                                                       | Ø 5 mm                                                                                                  | 3 x 16 mm <sup>2</sup>                                                                                  | 3 x 10 mm <sup>2</sup> |

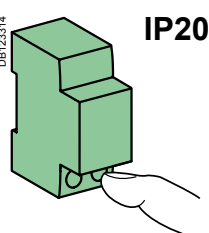
\* See module CA907000



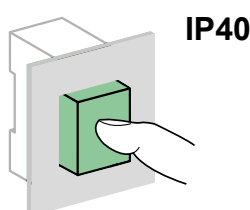
Clip on DIN rail 35 mm.



Indifferent position of installation.

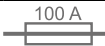


IP20



IP40

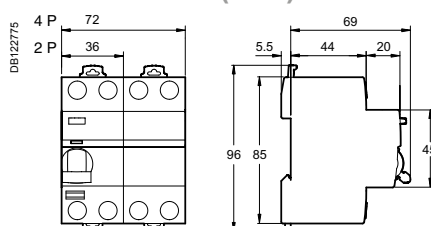
## Technical data

| Main characteristics                                                        |                                                                                                                |                                                                                       |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Insulation voltage (U <sub>i</sub> )                                        |                                                                                                                | 500 V                                                                                 |
| Pollution degree                                                            |                                                                                                                | 3                                                                                     |
| Rated impulse withstand voltage (U <sub>imp</sub> )                         |                                                                                                                | 6 kV                                                                                  |
| According to IEC/EN 61008-1                                                 |                                                                                                                |                                                                                       |
| Making and breaking capacity (I <sub>m</sub> /I <sub>Δm</sub> )             |                                                                                                                | 1500 A                                                                                |
| Surge current withstand (8/20 μs) without tripping                          | AC types (no selective  ) | 250 Å                                                                                 |
|                                                                             | AC types (selective  )    | 3 kÅ                                                                                  |
|                                                                             | S/I type                                                                                                       | 3 kÅ                                                                                  |
| Conditional rated short circuit current (I <sub>nc</sub> /I <sub>Δc</sub> ) | With iC60N/H/L                                                                                                 | Equal to breaking capacity of iC60                                                    |
|                                                                             | With fuse                 | 10,000 A                                                                              |
| Behaviour in case of voltage drop                                           |                           | Residual current protection down to 0 V according to IEC/EN 61008-1 § 3.3.4           |
| Additional characteristics                                                  |                                                                                                                |                                                                                       |
| Degree of protection                                                        | Device only                                                                                                    | IP20                                                                                  |
|                                                                             | Device in modular enclosure                                                                                    | IP40                                                                                  |
|                                                                             |                                                                                                                | Insulation class II                                                                   |
| Endurance (O-C)                                                             | Electrical (AC1)                                                                                               | 16 to 63 A<br>15,000 cycles                                                           |
|                                                                             |                                                                                                                | 80 to 100 A<br>10,000 cycles                                                          |
|                                                                             | Mechanical                                                                                                     | 20,000 cycles                                                                         |
| Operating temperature                                                       | AC type                                                                                                        | -5°C to +60°C                                                                         |
|                                                                             | S/I types                                                                                                      | -25°C to +60°C                                                                        |
|                                                                             |                                                                                                                |  |
| Storage temperature                                                         |                                                                                                                | -40°C to +85°C                                                                        |

## Weight (g)

| Residual current circuit breakers |     |
|-----------------------------------|-----|
| Type                              | iLD |
| 2P                                | 210 |
| 4P                                | 370 |

## Dimensions (mm)

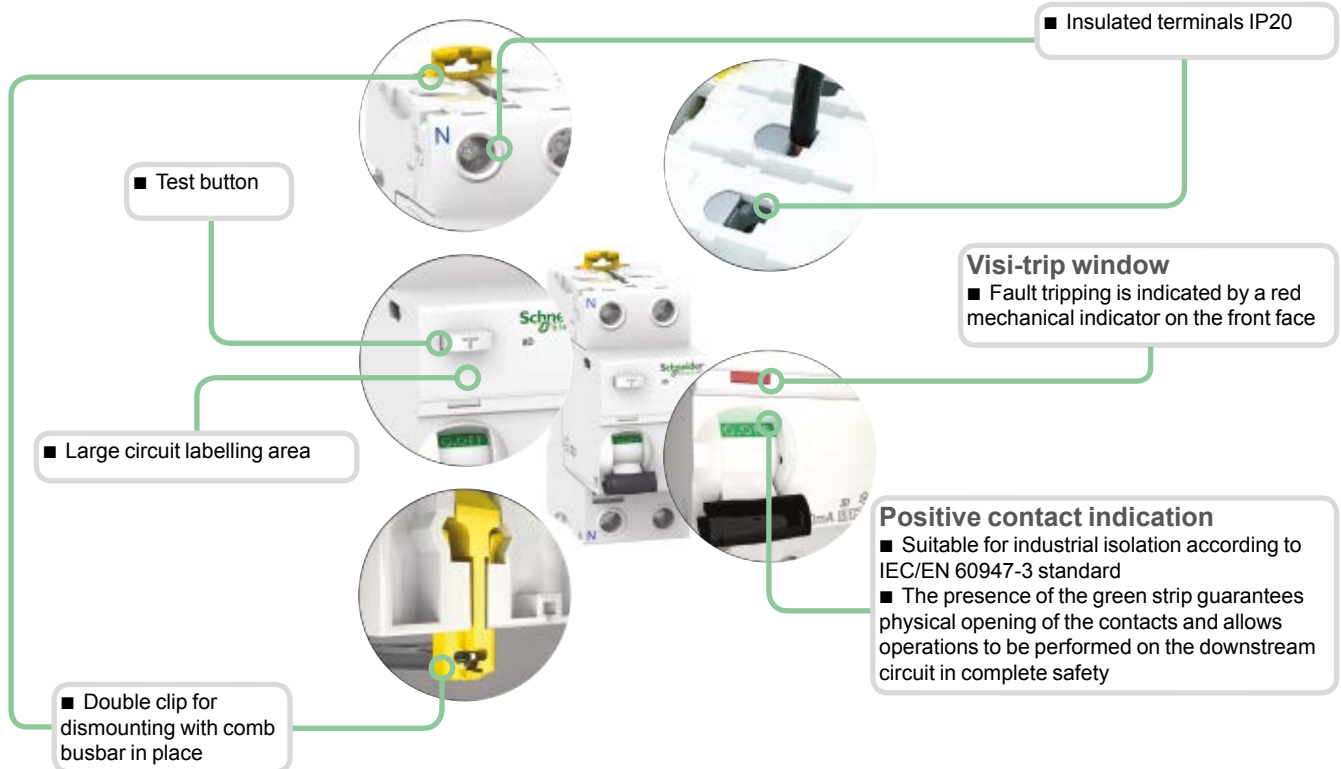


# ILD residual current circuit breakers (AC, A, *SI* types) (cont.)

PB104548-40



PB104472-40



## *SI* type

The *SI* type provides increased immunity from electrical interference and polluted or corrosive environments.

# RCCB-ID 125 A residual current circuit breakers

IEC/EN 61008-1  
VDE 0664



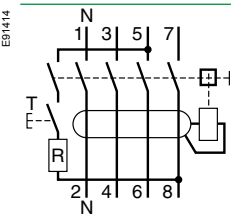
16940

- The RCCB-ID 125 A residual current circuit breakers provide:
  - protection of persons against electric shock by direct contact (30 mA),
  - protection of persons against electric shock by indirect contact (300 mA),
  - protection of installations against the risk of fire (300 mA).

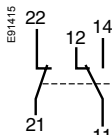
## OFsp auxiliary

- Electrical indication: by OFsp auxiliary mounted to the left, it has a double changeover switch indicating the "open" or "closed" position of the RCCB-ID 125 A.

## Catalogue numbers

| RCCB-ID 125 A residual current circuit breakers                                     |                                                                                         |                      |        |   |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------|--------|---|
| Type                                                                                | AC  | Width in 9 mm module |        |   |
| 4P                                                                                  | Sensitivity                                                                             | 30 mA                | 300 mA |   |
|  | Rating 125 A                                                                            | 16905                | 16907  | 8 |
|                                                                                     | Voltage rating (Ue)                                                                     | 2P                   | 230 V  |   |
|                                                                                     |                                                                                         | 4P                   | 400 V  |   |
|                                                                                     | Operating frequency                                                                     | 50 Hz                |        |   |

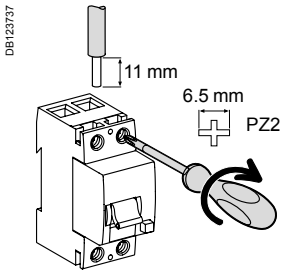
## Auxiliary

| Type                                                                                |         |                 |       | Width in 9 mm module |
|-------------------------------------------------------------------------------------|---------|-----------------|-------|----------------------|
| Contact OFsp                                                                        | Contact | Voltage         |       |                      |
|  | 1 A     | 110 V DC        | 16940 | 1                    |
|                                                                                     | 6 A     | 230 V AC (AC15) |       |                      |

# RCCB-ID 125 A residual current circuit breakers (cont.)

## Connection

■ By tunnel terminals for:



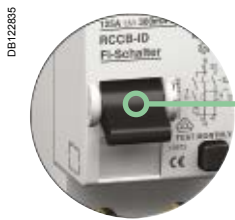
| Type    | Tightening torque | Copper cables                                                  |                                                                |
|---------|-------------------|----------------------------------------------------------------|----------------------------------------------------------------|
|         |                   | Rigid                                                          | Flexible or with ferrule                                       |
|         |                   | DB112804                                                       | DB112805                                                       |
|         |                   |                                                                |                                                                |
| RCCB-ID | 3 N.m             | 1 x 1.5 to 50 mm <sup>2</sup><br>2 x 1.5 to 16 mm <sup>2</sup> | 1 x 1.5 to 35 mm <sup>2</sup><br>2 x 1.5 to 16 mm <sup>2</sup> |
| OFsp    | 0.8 N.m           | 1 to 1.5 mm <sup>2</sup>                                       | 1 to 1.5 mm <sup>2</sup>                                       |

## Technical data

### OFsp contact status, depending on the position of the residual current circuit breaker

#### Type

|               |                  |        |        |        |
|---------------|------------------|--------|--------|--------|
| RCCB-ID 125 A | Closed           | ■      | -      | -      |
|               | Open             | -      | ■      | -      |
|               | Tripped on fault | -      | -      | ■      |
| Contact OFsp  | 22/21            | Open   | Closed | Closed |
|               | 12/11            | Open   | Closed | Closed |
|               | 14/11            | Closed | Open   | Open   |



### Indication of the status of the RCCB-ID via the 3-position toggle and front panel indicator

- Closed (red indicator)
- Tripped on fault (green indicator)
- Open (green indicator)

### Electrical characteristics

|                                                                             |                                                                             |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Insulation voltage (U <sub>i</sub> )                                        | 400 V                                                                       |
| Pollution degree                                                            | 3                                                                           |
| Rated impulse withstand voltage (U <sub>imp</sub> )                         | 4 kV                                                                        |
| <b>According to IEC/EN 61008-1</b>                                          |                                                                             |
| Making and breaking capacity (I <sub>m</sub> /I <sub>Δm</sub> )             | 1250 A                                                                      |
| Surge current withstand (8/20 μs) without tripping                          | 250 A                                                                       |
| Conditional rated short circuit current (I <sub>nc</sub> /I <sub>Δc</sub> ) | With FU 125 A gG fuse<br>10,000 A                                           |
| Behaviour in case of voltage drop                                           | Residual current protection down to 0 V according to IEC/EN 61008-1 § 3.3.4 |

### Additional characteristics

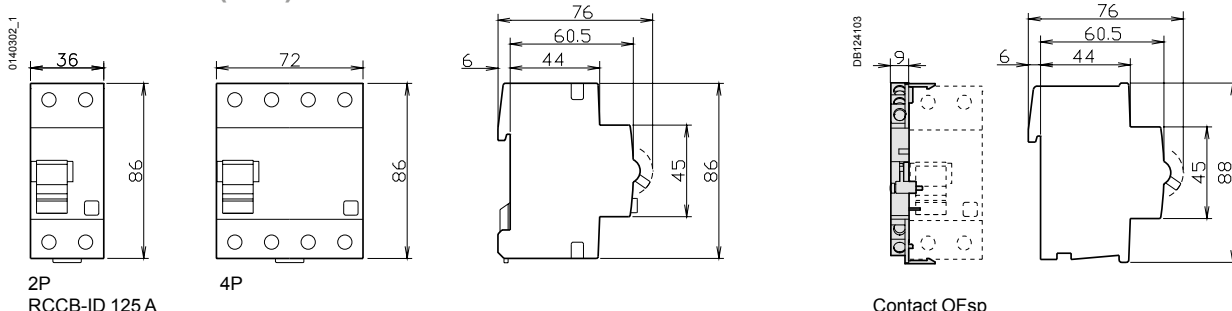
|                                        |                             |                                |
|----------------------------------------|-----------------------------|--------------------------------|
| Degree of protection                   | Device only                 | IP20<br>IP40 with screw shield |
|                                        | Device in modular enclosure | IP40<br>Insulation class II    |
| Endurance (O-C)                        | Electrical                  | > 2 000 cycles                 |
|                                        | Mechanical                  | > 5 000 cycles                 |
| Operating temperature                  |                             | -25°C to +40°C                 |
| Storage temperature                    |                             | -40°C to +85°C                 |
| Range of test button operating voltage | 30 mA                       | 250...440 V AC                 |
|                                        | 300 mA                      | 185...440 V AC                 |

## Weight (g)

### Residual current circuit breakers and auxiliary

| Type | RCCB-ID 125 A | OFsp |
|------|---------------|------|
| 4P   | 420           | 40   |

## Dimensions (mm)



# iC60N circuit breakers (curves C, D)



Country approval pictograms



## IEC/EN 60947-2 IEC/EN 60898-1

- iC60N circuit breakers are multi-standard circuit breakers which combine the following functions:
  - circuit protection against short-circuit currents,
  - circuit protection against overload currents,
  - suitable for industrial isolation according to IEC/EN 60947-2, standard.
  - fault tripping indication by a red mechanical indicator in circuit breaker front face.

### Alternating current (AC) 50/60 Hz

| Breaking capacity (Icu) according to IEC/EN 60947-2 |           |              |              |              |       | Service<br>breaking<br>capacity<br>(Ics) |
|-----------------------------------------------------|-----------|--------------|--------------|--------------|-------|------------------------------------------|
|                                                     |           | Voltage (Ue) |              |              |       |                                          |
| Ph/Ph (2P, 3P, 4P)                                  |           | 12 to 133 V  | 220 to 240 V | 380 to 415 V | 440 V |                                          |
| Ph/N (1P)                                           |           | 12 to 60 V   | 100 to 133 V | 220 to 240 V | -     |                                          |
| Rating (In)                                         | 1 to 4 A  | 50 kA        | 50 kA        | 50 kA        | 25 kA | 100 % of Icu                             |
|                                                     | 6 to 63 A | 36 kA        | 20 kA        | 10 kA        | 6 kA  | 75 % of Icu                              |

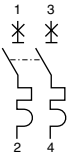
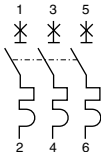
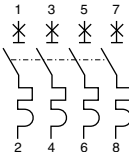
### Breaking capacity (Icn) according to IEC/EN 60898-1

| Voltage (Ue) |           |
|--------------|-----------|
| Ph/Ph        | 400 V     |
| Ph/N         | 230 V     |
| Rating (In)  | 1 to 63 A |
|              | 6000 A    |

### Direct current (DC)

| Breaking capacity (Icu) according to IEC/EN 60947-2 |              |        |         |         |         | Service<br>breaking<br>capacity<br>(Ics) |
|-----------------------------------------------------|--------------|--------|---------|---------|---------|------------------------------------------|
|                                                     | Voltage (Ue) |        |         |         |         |                                          |
| Between +/-                                         | 12 to 60 V   | ≤ 72 V | ≤ 125 V | ≤ 180 V | ≤ 250 V |                                          |
| Number of poles                                     | 1P           |        | 2P      | 3P      | 4P      |                                          |
| Rating (In) 1 to 63 A                               | 15 kA        | 10 kA  | 10 kA   | 10 kA   | 10 kA   | 100 % of Icu                             |

## Catalogue numbers

| iC60N circuit breaker |                                                                                                       |          |                                                                                                       |          |                                                                                                        |          |                                                                                                         |          |  |
|-----------------------|-------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|----------|--|
| Type                  | 1P                                                                                                    |          | 2P                                                                                                    |          | 3P                                                                                                     |          | 4P                                                                                                      |          |  |
|                       | <div>E45092</div>  |          | <div>E45094</div>  |          | <div>E45095</div>  |          | <div>E45097</div>  |          |  |
| Auxiliaries           | See page 21                                                                                           |          |                                                                                                       |          |                                                                                                        |          |                                                                                                         |          |  |
| Vigi iC60             | See page 14                                                                                           |          |                                                                                                       |          |                                                                                                        |          |                                                                                                         |          |  |
| Rating (In)           | Curve                                                                                                 |          | Curve                                                                                                 |          | Curve                                                                                                  |          | Curve                                                                                                   |          |  |
|                       | C                                                                                                     | D        | C                                                                                                     | D        | C                                                                                                      | D        | C                                                                                                       | D        |  |
| 1 A                   | A9F74101                                                                                              | A9F75101 | A9F74201                                                                                              | A9F75201 | A9F74301                                                                                               | A9F75301 | A9F74401                                                                                                | A9F75401 |  |
| 2 A                   | A9F74102                                                                                              | A9F75102 | A9F74202                                                                                              | A9F75202 | A9F74302                                                                                               | A9F75302 | A9F74402                                                                                                | A9F75402 |  |
| 3 A                   | A9F74103                                                                                              | A9F75103 | A9F74203                                                                                              | A9F75203 | A9F74303                                                                                               | A9F75303 | A9F74403                                                                                                | A9F75403 |  |
| 4 A                   | A9F74104                                                                                              | A9F75104 | A9F74204                                                                                              | A9F75204 | A9F74304                                                                                               | A9F75304 | A9F74404                                                                                                | A9F75404 |  |
| 6 A                   | A9F74106                                                                                              | A9F75106 | A9F74206                                                                                              | A9F75206 | A9F74306                                                                                               | A9F75306 | A9F74406                                                                                                | A9F75406 |  |
| 10 A                  | A9F74110                                                                                              | A9F75110 | A9F74210                                                                                              | A9F75210 | A9F74310                                                                                               | A9F75310 | A9F74410                                                                                                | A9F75410 |  |
| 16 A                  | A9F74116                                                                                              | A9F75116 | A9F74216                                                                                              | A9F75216 | A9F74316                                                                                               | A9F75316 | A9F74416                                                                                                | A9F75416 |  |
| 20 A                  | A9F74120                                                                                              | A9F75120 | A9F74220                                                                                              | A9F75220 | A9F74320                                                                                               | A9F75320 | A9F74420                                                                                                | A9F75420 |  |
| 25 A                  | A9F74125                                                                                              | A9F75125 | A9F74225                                                                                              | A9F75225 | A9F74325                                                                                               | A9F75325 | A9F74425                                                                                                | A9F75425 |  |
| 32 A                  | A9F74132                                                                                              | A9F75132 | A9F74232                                                                                              | A9F75232 | A9F74332                                                                                               | A9F75332 | A9F74432                                                                                                | A9F75432 |  |
| 40 A                  | A9F74140                                                                                              | A9F75140 | A9F74240                                                                                              | A9F75240 | A9F74340                                                                                               | A9F75340 | A9F74440                                                                                                | A9F75440 |  |
| 50 A                  | A9F74150                                                                                              | A9F75150 | A9F74250                                                                                              | A9F75250 | A9F74350                                                                                               | A9F75350 | A9F74450                                                                                                | A9F75450 |  |
| 63 A                  | A9F74163                                                                                              | A9F75163 | A9F74263                                                                                              | A9F75263 | A9F74363                                                                                               | A9F75363 | A9F74463                                                                                                | A9F75463 |  |
| Width in 9-mm modules | 2                                                                                                     |          | 4                                                                                                     |          | 6                                                                                                      |          | 8                                                                                                       |          |  |
| Accessories           | See page 94                                                                                           |          |                                                                                                       |          |                                                                                                        |          |                                                                                                         |          |  |

# iC60H circuit breakers (curve C)



Country approval pictograms



## IEC/EN 60947-2 IEC/EN 60898-1

- iC60H circuit breakers are multi-standard circuit breakers which combine the following functions:
  - circuit protection against short-circuit currents,
  - circuit protection against overload currents,
  - suitable for industrial isolation according to IEC/EN 60947-2, standard.
  - fault tripping indication by a red mechanical indicator in circuit breaker front face.

### Alternating current (AC) 50/60 Hz

| Breaking capacity (Icu) according to IEC/EN 60947-2 |              |              |              |       | Service breaking capacity (Ics) |
|-----------------------------------------------------|--------------|--------------|--------------|-------|---------------------------------|
|                                                     | Voltage (Ue) |              |              |       |                                 |
| Ph/Ph (3P)                                          | 12 to 133 V  | 220 to 240 V | 380 to 415 V | 440 V |                                 |
| Ph/N (1P)                                           | 12 to 60 V   | 100 to 133 V | 220 to 240 V | -     |                                 |
| Rating (In)                                         | 1 to 4 A     | 70 kA        | 70 kA        | 70 kA |                                 |
|                                                     | 6 to 63A     | 42 kA        | 30 kA        | 15 kA |                                 |
|                                                     |              |              |              | 10 kA |                                 |
| Breaking capacity (Icn) according to IEC/EN 60898-1 |              |              |              |       |                                 |
|                                                     | Voltage (Ue) |              |              |       |                                 |
| Ph/Ph                                               | 400 V        |              |              |       |                                 |
| Ph/N                                                | 230 V        |              |              |       |                                 |
| Rating (In)                                         | 1 to 63 A    |              |              |       |                                 |
|                                                     | 10000 A      |              |              |       |                                 |

### Direct current (DC)

| Breaking capacity (Icu) according to IEC/EN 60947-2 |              |        |         | Service breaking capacity (Ics) |
|-----------------------------------------------------|--------------|--------|---------|---------------------------------|
|                                                     | Voltage (Ue) |        |         |                                 |
| Between +/-                                         | 12 to 60 V   | ≤ 72 V | ≤ 180 V |                                 |
| Number of poles                                     | 1P           |        | 3P      |                                 |
| Rating (In) 1 to 63 A                               | 20 kA        | 15 kA  | 15 kA   |                                 |
|                                                     |              |        |         | 100 % of Icu                    |

## Catalogue numbers

| iC60H circuit breaker |             |          |
|-----------------------|-------------|----------|
| Type                  | 1P          | 3P       |
|                       |             |          |
| Auxiliaries           | See page 21 |          |
| Vigi iC60             | See page 14 |          |
| Rating (In)           | Curve       | Curve    |
|                       | C           | C        |
| 1 A                   | A9F84101    | A9F84301 |
| 2 A                   | A9F84102    | A9F84302 |
| 3 A                   | A9F84103    | A9F84303 |
| 4 A                   | A9F84104    | A9F84304 |
| 6 A                   | A9F84106    | A9F84306 |
| 10 A                  | A9F84110    | A9F84310 |
| 16 A                  | A9F84116    | A9F84316 |
| 20 A                  | A9F84120    | A9F84320 |
| 25 A                  | A9F84125    | A9F84325 |
| 32 A                  | A9F84132    | A9F84332 |
| 40 A                  | A9F84140    | A9F84340 |
| 50 A                  | A9F84150    | A9F84350 |
| 63 A                  | A9F84163    | A9F84363 |
| Width in 9-mm modules | 2           | 6        |
| Accessories           | See page 94 |          |

# iC60L circuit breakers (curve C)



Country approval pictograms



## IEC/EN 60947-2

## IEC/EN 60898-1 up to 40 A

- iC60L circuit breakers are multi-standard circuit breakers which combine the following functions:
  - circuit protection against short-circuit currents,
  - circuit protection against overload currents,
  - suitable for industrial isolation according to IEC/EN 60947-2, standard.
  - fault tripping indication by a red mechanical indicator in circuit breaker front face.

### Alternating current (AC) 50/60 Hz

| Breaking capacity (Icu) according to IEC/EN 60947-2 |              |              |              |       |                            | Service<br>breaking<br>capacity<br>(Ics) |
|-----------------------------------------------------|--------------|--------------|--------------|-------|----------------------------|------------------------------------------|
|                                                     | Voltage (Ue) |              |              |       |                            |                                          |
| Ph/Ph (2P, 3P, 4P)                                  | 12 to 133 V  | 220 to 240 V | 380 to 415 V | 440 V |                            |                                          |
| Ph/N (1P)                                           | 12 to 60 V   | 100 to 133 V | 220 to 240 V | -     |                            |                                          |
| Rating<br>(In)                                      |              |              |              |       |                            |                                          |
| 1 to 4 A                                            | 100 kA       | 100 kA       | 100 kA       | 70 kA | 100 % of Icu               |                                          |
| 6 to 25 A                                           | 70 kA        | 50 kA        | 25 kA        | 20 kA | 50 % of Icu <sup>(1)</sup> |                                          |
| 32 / 40 A                                           | 70 kA        | 36 kA        | 20 kA        | 15 kA | 50 % of Icu                |                                          |
| 50 / 63 A                                           | 70 kA        | 30 kA        | 15 kA        | 10 kA | 50 % of Icu                |                                          |

### Breaking capacity (Icn) according to IEC/EN 60898-1

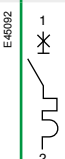
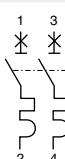
| Voltage (Ue) |           |
|--------------|-----------|
| Ph/Ph        | 400 V     |
| Ph/N         | 230 V     |
| Rating (In)  | 1 to 40 A |
|              | 15000 A   |

### Direct current (DC)

| Breaking capacity (Icu) according to IEC/EN 60947-2 |              |        |         |         |         | Service<br>breaking<br>capacity<br>(Ics) |
|-----------------------------------------------------|--------------|--------|---------|---------|---------|------------------------------------------|
|                                                     | Voltage (Ue) |        |         |         |         |                                          |
| Between +/-                                         | 12 to 60 V   | ≤ 72 V | ≤ 125 V | ≤ 180 V | ≤ 250 V |                                          |
| Number of poles                                     | 1P           |        | 2P      | 3P      | 4P      |                                          |
| Rating (In) 1 to 63 A                               | 25 kA        | 20 kA  | 20 kA   | 20 kA   | 20 kA   | 100 % of Icu                             |

## Catalogue numbers

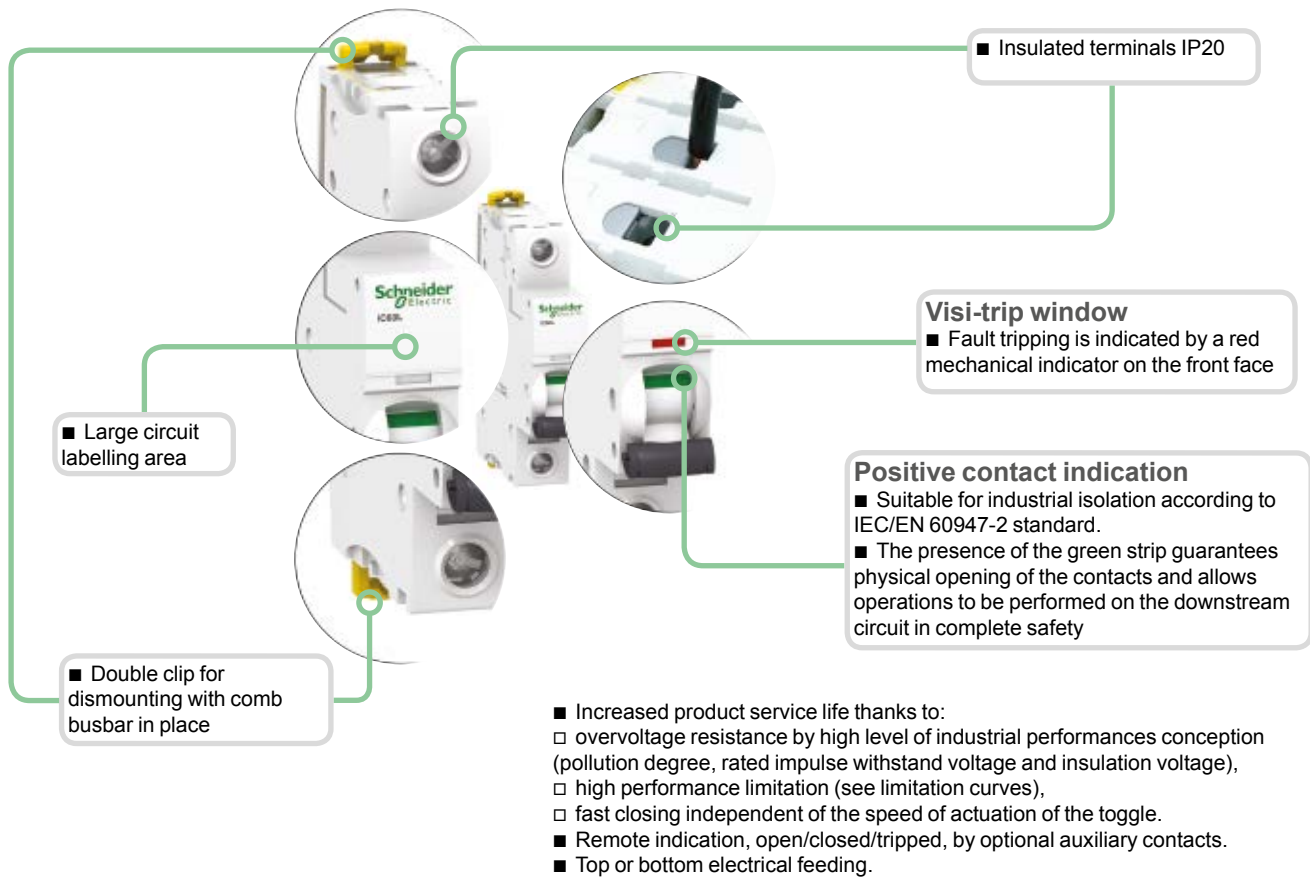
### iC60L circuit breaker

| Type                  | 1P                                                                                  | 2P                                                                                    | 3P                                                                                    | 4P                                                                                    |
|-----------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       |  |  |  |  |
| Auxiliaries           | See page 21                                                                         |                                                                                       |                                                                                       |                                                                                       |
| Vigi iC60             | See page 14                                                                         |                                                                                       |                                                                                       |                                                                                       |
| Rating (In)           | Curve                                                                               | Curve                                                                                 | Curve                                                                                 | Curve                                                                                 |
|                       | C                                                                                   | C                                                                                     | C                                                                                     | C                                                                                     |
| 1 A                   | A9F94101                                                                            | A9F94201                                                                              | A9F94301                                                                              | A9F94401                                                                              |
| 2 A                   | A9F94102                                                                            | A9F94202                                                                              | A9F94302                                                                              | A9F94402                                                                              |
| 3 A                   | A9F94103                                                                            | A9F94203                                                                              | A9F94303                                                                              | A9F94403                                                                              |
| 4 A                   | A9F94104                                                                            | A9F94204                                                                              | A9F94304                                                                              | A9F94404                                                                              |
| 6 A                   | A9F94106                                                                            | A9F94206                                                                              | A9F94306                                                                              | A9F94406                                                                              |
| 10 A                  | A9F94110                                                                            | A9F94210                                                                              | A9F94310                                                                              | A9F94410                                                                              |
| 16 A                  | A9F94116                                                                            | A9F94216                                                                              | A9F94316                                                                              | A9F94416                                                                              |
| 20 A                  | A9F94120                                                                            | A9F94220                                                                              | A9F94320                                                                              | A9F94420                                                                              |
| 25 A                  | A9F94125                                                                            | A9F94225                                                                              | A9F94325                                                                              | A9F94425                                                                              |
| 32 A                  | A9F94132                                                                            | A9F94232                                                                              | A9F94332                                                                              | A9F94432                                                                              |
| 40 A                  | A9F94140                                                                            | A9F94240                                                                              | A9F94340                                                                              | A9F94440                                                                              |
| 50 A                  | A9F94150                                                                            | A9F94250                                                                              | A9F94350                                                                              | A9F94450                                                                              |
| 63 A                  | A9F94163                                                                            | A9F94263                                                                              | A9F94363                                                                              | A9F94463                                                                              |
| Width in 9-mm modules | 2                                                                                   | 4                                                                                     | 4                                                                                     | 6                                                                                     |
| Accessories           | See page 94                                                                         |                                                                                       |                                                                                       |                                                                                       |

(1) 100 % of Icu for ratings 6 to 25 A under Ue 100 to 133 V AC Ph/Ph and Ue 12 to 60 V AC Ph/N.

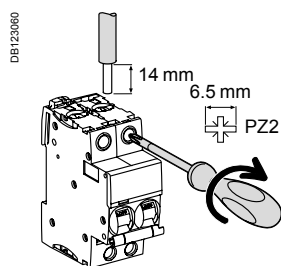
# iC60 circuit breakers (curve C, D)

PB104439-40

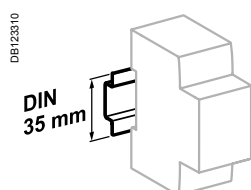


# iC60 circuit breakers (curve C, D) (cont.)

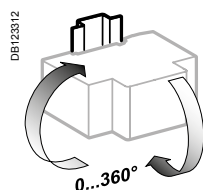
## Connection



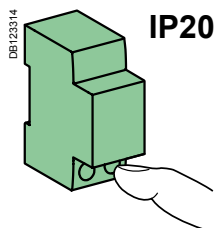
|            |                   | Without accessory                                                                             |                                                                                               | With accessories                                                                              |                                                                                                 |                                                                                                 |                        |
|------------|-------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------|
| Rating     | Tightening torque | Copper cables                                                                                 |                                                                                               | 50 mm <sup>2</sup> Al terminal                                                                | Screw-on connection for ring terminal                                                           | Multi-cables terminal                                                                           |                        |
|            |                   | Rigid                                                                                         | Flexible or with ferrule                                                                      |                                                                                               |                                                                                                 | Rigid cables                                                                                    | Flexible cables        |
|            |                   | DB122945<br> | DB122946<br> | DB122935<br> | DB118789<br> | DB118787<br> |                        |
| 1 to 25 A  | 2 N.m             | 1 to 25 mm <sup>2</sup>                                                                       | 1 to 16 mm <sup>2</sup>                                                                       | -                                                                                             | Ø 5 mm                                                                                          | -                                                                                               | -                      |
| 32 to 63 A | 3.5 N.m           | 1 to 35 mm <sup>2</sup>                                                                       | 1 to 25 mm <sup>2</sup>                                                                       | 50 mm <sup>2</sup>                                                                            |                                                                                                 | 3 x 16 mm <sup>2</sup>                                                                          | 3 x 10 mm <sup>2</sup> |



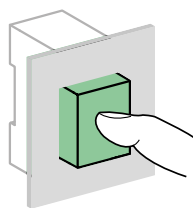
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

## Technical data

### Main characteristics

#### According to IEC/EN 60947-2

|                                        |                       |
|----------------------------------------|-----------------------|
| Insulation voltage (Ui)                | 500 V AC              |
| Pollution degree                       | 3                     |
| Rated impulse withstand voltage (Uimp) | 6 kV                  |
| Thermal tripping                       | Reference temperature |
| Magnetic tripping                      | C curve               |
|                                        | D curve               |
| Utilization category                   | A                     |

#### According to IEC/EN 60898-1

|                                                                 |            |
|-----------------------------------------------------------------|------------|
| Rated making and breaking capacity of an individual pole (Icn1) | Icn1 = Icn |
|-----------------------------------------------------------------|------------|

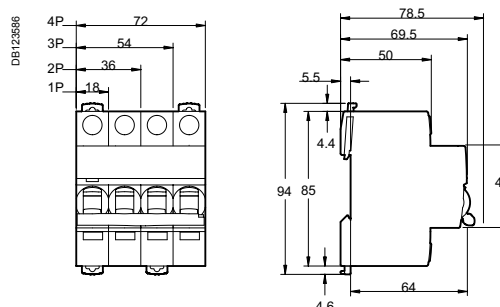
### Additional characteristics

|                                                                                                 |                             |                                              |
|-------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------|
| Breaking capacity under 1 pole with IT 380-415 V isolated neutral system (case of double fault) | 40 A                        | 4 kA                                         |
|                                                                                                 | 50/63 A                     | 3 kA                                         |
| Degree of protection (IEC 60529)                                                                | Device only                 | IP20                                         |
|                                                                                                 | Device in modular enclosure | IP40                                         |
| Endurance (O-C)                                                                                 | Electrical                  | 10,000 cycles                                |
|                                                                                                 | Mechanical                  | 20,000 cycles                                |
| Overvoltage category (IEC 60364)                                                                |                             | IV                                           |
| Operating temperature                                                                           |                             | -35°C to +70°C                               |
| Storage temperature                                                                             |                             | -40°C to +85°C                               |
| Tropicalization (IEC 60068-1)                                                                   |                             | Treatment 2 (relative humidity 95 % to 55°C) |

## Weight (g)

| Circuit breaker |      |
|-----------------|------|
| Type            | iC60 |
| 1P              | 125  |
| 2P              | 250  |
| 3P              | 375  |
| 4P              | 500  |

## Dimensions (mm)



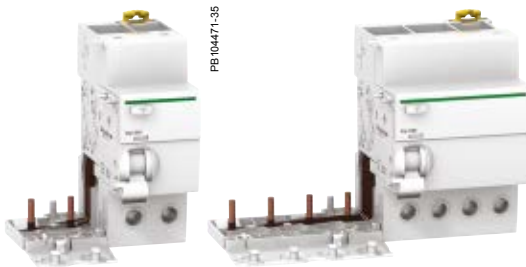
# Vigi iC60 add-on residual current devices (AC type)



Country approval pictograms

IEC/EN 61009-1

PB 104466-35

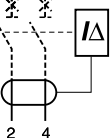
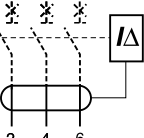
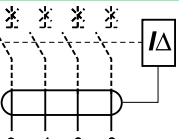


PB 104471-35

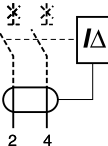
- Combined with iC60 circuit breaker, the Vigi iC60 provide:
  - protection of persons against electric shock by direct contact (30 mA),
  - protection of persons against electric shock by indirect contact (300 mA),
  - protection of installations against the risk of fire (300 mA).

## Catalogue numbers

### Vigi iC60 add-on residual current devices for 230/400 V network

| Type                                                                                |        | AC  |             |          | Width in 9 mm modules                                                                        |   |
|-------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|-------------|----------|----------------------------------------------------------------------------------------------|---|
| Auxiliaries                                                                         |        | Without auxiliaries                                                                  |             |          |                                                                                              |   |
| 2P                                                                                  |        | Sensitivity                                                                          | 30 mA       | 300 mA   | 300 mA   |   |
|  | Rating | 25 A                                                                                 | A9V41225    | A9V44225 | -                                                                                            | 3 |
|                                                                                     |        | 63 A                                                                                 | A9V41263    | A9V44263 | A9V15263                                                                                     | 4 |
| 3P                                                                                  |        | Sensitivity                                                                          | 30 mA       | 300 mA   | 300 mA  |   |
|  | Rating | 25 A                                                                                 | A9V41325    | A9V44325 | -                                                                                            | 6 |
|                                                                                     |        | 63 A                                                                                 | A9V41363    | A9V44363 | A9V15363                                                                                     | 7 |
| 4P                                                                                  |        | Sensitivity                                                                          | 30 mA       | 300 mA   | 300 mA  |   |
|  | Rating | 25 A                                                                                 | A9V41425    | A9V44425 | -                                                                                            | 6 |
|                                                                                     |        | 63 A                                                                                 | A9V41463    | A9V44463 | A9V15463                                                                                     | 7 |
| Voltage rating (Ue)                                                                 |        | 2P                                                                                   | 230 - 240 V |          |                                                                                              |   |
|                                                                                     |        | 3P-4P                                                                                | 400 - 415 V |          |                                                                                              |   |
| Operating frequency                                                                 |        | 50/60 Hz                                                                             |             |          |                                                                                              |   |
| Accessories                                                                         |        | See page 94                                                                          |             |          |                                                                                              |   |

### Vigi iC60 add-on residual current devices for 110 V network

| Type                                                                                |        | AC  |             | Width in 9 mm modules |        |
|-------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------|-------------|-----------------------|--------|
| Auxiliaries                                                                         |        | Without auxiliaries                                                                      |             |                       |        |
| 2P                                                                                  |        | Sensitivity                                                                              |             | 30 mA                 | 300 mA |
|  | Rating | 25 A                                                                                     | A9V01225    | A9V04225              | 3      |
|                                                                                     |        | 63 A                                                                                     | A9V01263    | A9V04263              | 4      |
| Voltage rating (Ue)                                                                 |        |                                                                                          | 110 V       |                       |        |
| Operating frequency                                                                 |        |                                                                                          | 50/60 Hz    |                       |        |
| Accessories                                                                         |        |                                                                                          | See page 94 |                       |        |

# Vigi iC60 add-on residual current devices (SI type)



Country approval pictograms

IEC/EN 61009-1

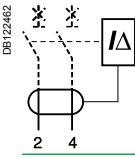
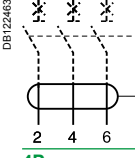
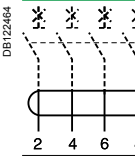


- Combined with iC60 circuit breaker, the Vigi iC60 provide:
  - protection of persons against electric shock by direct contact (30 mA),
  - protection of persons against electric shock by indirect contact (300 mA),
  - protection of installations against the risk of fire (300 mA).

The **SI** type provides increased immunity from electrical interference and polluted or corrosive environments.

## Catalogue numbers

### Vigi iC60 add-on residual current devices for 230/400 V network

| Type                                                                                                | SI  | Width in 9 mm modules                                                                                            |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Auxiliaries</b>                                                                                  | <b>Without auxiliaries</b>                                                             |                                                                                                                  |
| <b>2P</b>                                                                                           | <b>Sensitivity</b>                                                                     | <b>30 mA</b> <b>300 mA</b>   |
|  <p>DB122462</p> | Rating 63 A<br>Sensitivity 30 mA                                                       | <b>A9V61263</b> <b>A9V65263</b> 4                                                                                |
| <b>3P</b>                                                                                           | <b>Sensitivity</b>                                                                     | <b>30 mA</b> <b>300 mA</b>  |
|  <p>DB122463</p> | Rating 63 A<br>Sensitivity 30 mA                                                       | <b>A9V61363</b> <b>A9V65363</b> 7                                                                                |
| <b>4P</b>                                                                                           | <b>Sensitivity</b>                                                                     | <b>30 mA</b> <b>300 mA</b>  |
|  <p>DB122464</p> | Rating 63 A<br>Sensitivity 30 mA                                                       | <b>A9V61463</b> <b>A9V65463</b> 7                                                                                |
| Voltage rating (Ue)                                                                                 | 2P                                                                                     | 230 - 240 V                                                                                                      |
|                                                                                                     | 3P-4P                                                                                  | 400 - 415 V                                                                                                      |
| Operating frequency                                                                                 |                                                                                        | 50/60 Hz                                                                                                         |
| <b>Accessories</b>                                                                                  | <b>See page 94</b>                                                                     |                                                                                                                  |

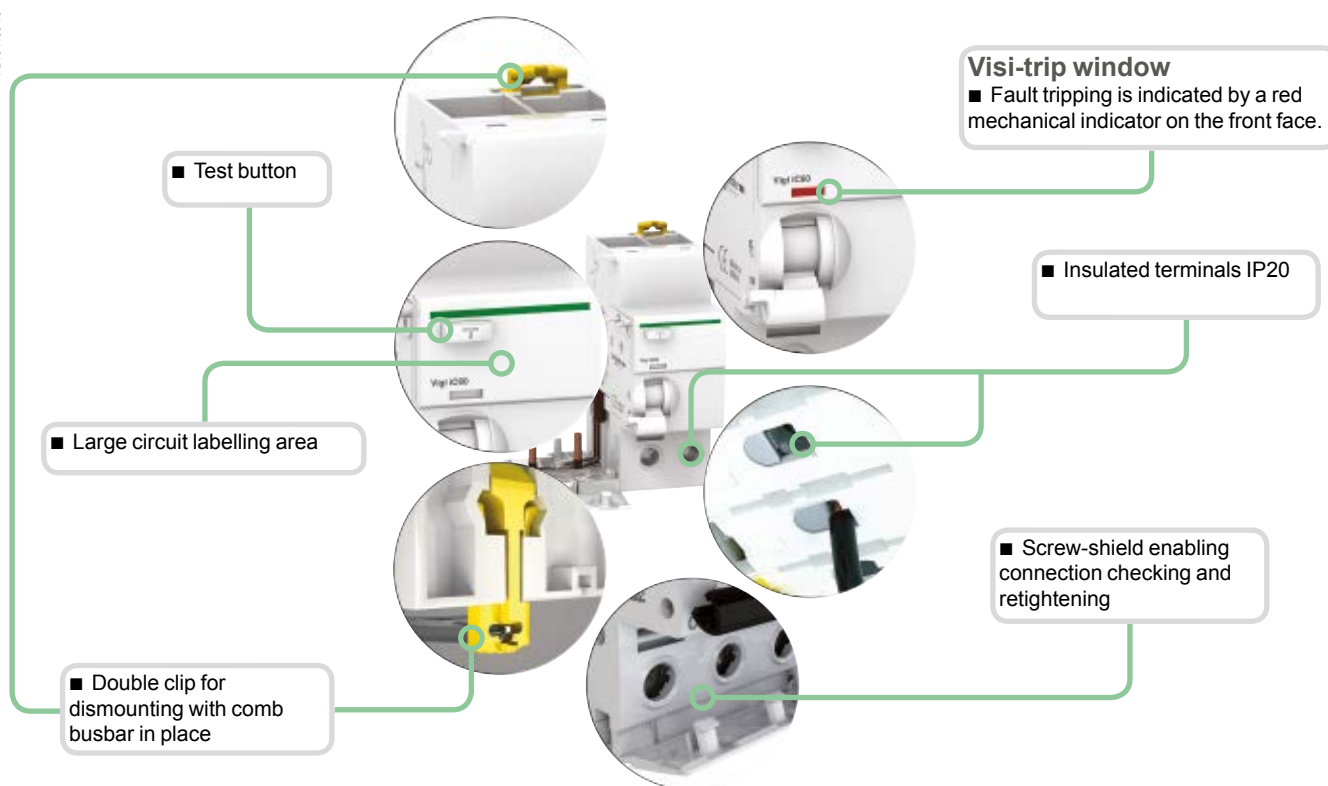
PB104556-51



## Association iC60N, H, L + Vigi iC60

| iC60        | Vigi iC60 25 A | Vigi iC60 63 A |
|-------------|----------------|----------------|
| 1 A to 25 A | ■              | ■              |
| 32 A - 40 A | NO             | ■              |
| 50 A - 63 A | NO             | ■              |

PB104466-40

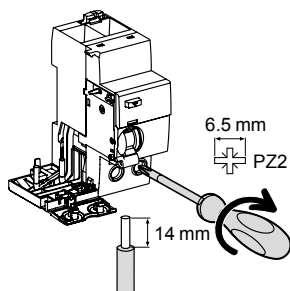


## SI type

The SI type provides increased immunity from electrical interference and polluted or corrosive environments.

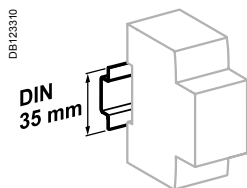
## Connection

DB122348

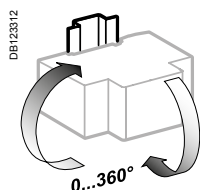


| Type      | Rating | Tightening torque | Copper cables                                                                       |                                                                                       |
|-----------|--------|-------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|           |        |                   | Rigid                                                                               | Flexible or with ferrule                                                              |
| Vigi iC60 | 25 A   | 2 N.m             |  |  |
|           | 63 A   | 3.5 N.m           |                                                                                     |                                                                                       |
|           |        |                   | 1 to 25 mm <sup>2</sup><br>1 to 35 mm <sup>2</sup>                                  | 1 to 16 mm <sup>2</sup><br>1 to 25 mm <sup>2</sup>                                    |

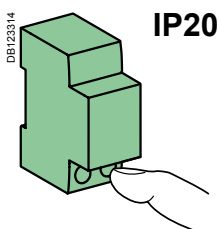
# Vigi iC60 add-on residual current devices (AC, SI types) (cont.)



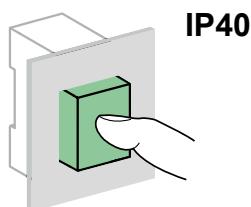
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

## Technical data

### Main characteristics

|                                        |       |
|----------------------------------------|-------|
| Insulation voltage (Ui)                | 500 V |
| Pollution degree                       | 3     |
| Rated impulse withstand voltage (Uimp) | 6 kV  |

### According to IEC/EN 61009-1

|                                                    |                                                                                                              |       |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------|
| Surge current withstand (8/20 μs) without tripping | AC types (no selective  ) | 250 Å |
|                                                    | AC types (selective  )    | 3 kÅ  |
|                                                    | SI type                                                                                                      | 3 kÅ  |

|                                   |                                                                                     |                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Behaviour in case of voltage drop |  | Residual current protection down to 0 V according to IEC/EN 61009-1 § 3.3.8 |
|-----------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

### Additional characteristics

|                       |                             |                                                                                                    |
|-----------------------|-----------------------------|----------------------------------------------------------------------------------------------------|
| Degree of protection  | Device only                 | IP20                                                                                               |
|                       | Device in modular enclosure | IP40                                                                                               |
| Operating temperature | AC type                     | -5°C to +60°C                                                                                      |
|                       | SI types                    |  -25°C to +60°C |
| Storage temperature   |                             | -40°C to +85°C                                                                                     |

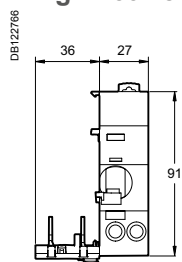
## Weight (g)

### Add-on residual current devices

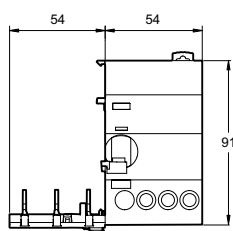
| Type | Vigi iC60 |
|------|-----------|
| 2P   | 165       |
| 3P   | 210       |
| 4P   | 245       |

## Dimensions (mm)

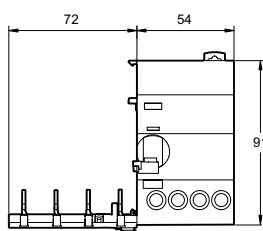
### Vigi iC60 25 A



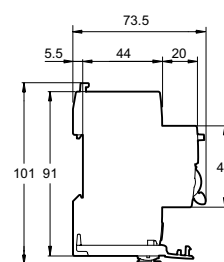
2P



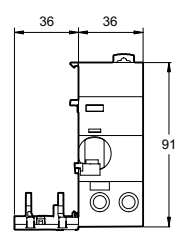
3P



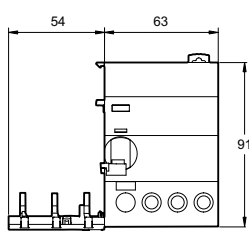
4P



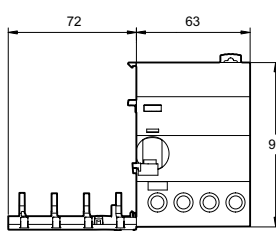
### Vigi iC60 63 A



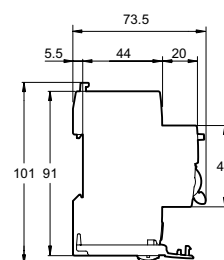
2P



3P



4P



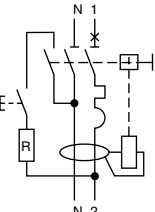


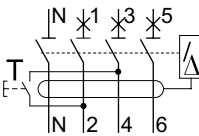
## IEC/EN 61009-1

- The residual current devices provide complete protection for final circuits (against overcurrents and insulation faults):
  - protection for users against electric shocks by direct contacts,
  - protection for users against electric shocks by indirect contacts,
  - protection of the installations against fire risks.

- The **SI** range has been designed to maintain a network with optimum safety and continuity of service in installations disturbed by:
  - extreme atmospheric conditions,
  - harmonic generating loads,
  - transient operating currents.



| iDPN N Vigi 6000                                                                   |         |                                                                                        |                                                                                        |                       |   |   |
|------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------|---|---|
| Type                                                                               |         | AC  | SI  | Width in 9 mm modules |   |   |
| Auxiliaries                                                                        |         | See page 21                                                                            |                                                                                        |                       |   |   |
| 1P+N                                                                               | Curve C | Sensitivity                                                                            | 30 mA                                                                                  | 30 mA                 |   |   |
|  |         | Rating (In)                                                                            | 6 A                                                                                    | A9D31606              | - | 4 |
|                                                                                    |         | 10 A                                                                                   | A9D31610                                                                               | A9D33610              |   |   |
|                                                                                    |         | 16 A                                                                                   | A9D31616                                                                               | A9D33616              |   |   |
|                                                                                    |         | 20 A                                                                                   | A9D31620                                                                               | A9D33620              |   |   |
|                                                                                    |         | 25 A                                                                                   | A9D31625                                                                               | -                     |   |   |
|                                                                                    |         | 32 A                                                                                   | A9D31632                                                                               | -                     |   |   |
|                                                                                    |         | 40 A                                                                                   | A9D31640                                                                               | -                     |   |   |
|                                                                                    |         | Voltage rating (Ue)                                                                    |                                                                                        | 230...240 V AC        |   |   |
| Operating frequency                                                                |         | 50 Hz                                                                                  |                                                                                        |                       |   |   |
| Accessories                                                                        |         | See page 94                                                                            |                                                                                        |                       |   |   |

| DPN N Vigi 6000                                                                     |             |              |          |                       |    |
|-------------------------------------------------------------------------------------|-------------|--------------|----------|-----------------------|----|
| Type                                                                                |             | AC           | SI       | Width in 9 mm modules |    |
| Auxiliaries                                                                         |             | See page 41  |          |                       |    |
| 3P+N                                                                                | Curve C     | Sensitivity  | 30 mA    | 30 mA                 |    |
|  | Rating (In) | 16 A         | A9D31716 | A9D33716              | 10 |
|                                                                                     |             | 20 A         | A9D31720 | A9D33720              |    |
|                                                                                     |             | 25 A         | A9D31725 | A9D33725              |    |
|                                                                                     |             | 32 A         | A9D31732 | A9D33732              |    |
|                                                                                     |             | 40 A         | A9D31740 | A9D33740              |    |
|                                                                                     |             |              |          |                       |    |
| Voltage rating (Ue)                                                                 |             | 400 V AC     |          |                       |    |
| Operating frequency                                                                 |             | 50 Hz        |          |                       |    |
| Accessories                                                                         |             | See page 100 |          |                       |    |



- Fast contact closure

- Double clip for dismantling with comb busbar in place

- Possibility of mixing iDPN Vigì 1P+N and DPN Vigì 3P+N devices on the same row and on the same comb busbar.

- Insulated terminals IP20

- Test button



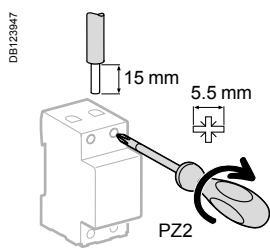
### Positive contact indication

- A green strip on the toggle guarantees opening of all the poles in safety conditions (padlocking possible) for work to be carried out on live parts

# Residual current devices iDPN N Vigi and DPN N Vigi (cont.)

## Connection

| Rating    | Tightening torque | Copper cables           |                          |
|-----------|-------------------|-------------------------|--------------------------|
|           |                   | Rigid                   | Flexible or with ferrule |
| 6 to 40 A | 2 N.m             | 1 to 16 mm <sup>2</sup> | 1 to 10 mm <sup>2</sup>  |



## Technical data

### Main characteristics

| Type                                                | iDPN N Vigi, DPN N Vigi |
|-----------------------------------------------------|-------------------------|
| Insulation voltage (U <sub>i</sub> )                | 400 V AC                |
| Pollution degree                                    | 3                       |
| Rated impulse withstand voltage (U <sub>imp</sub> ) | 4 kV                    |
| Setting temperature for ratings                     | 30°C                    |
| Magnetic tripping                                   | Curve C                 |
|                                                     | Between 5 and 10 In     |

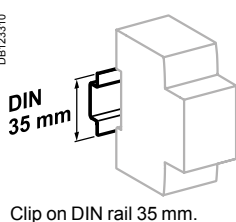
### According to IEC/EN 61009-1

|                                                                |         |
|----------------------------------------------------------------|---------|
| Limitation class                                               | 3       |
| Rated breaking capacity (I <sub>cn</sub> )                     | 6000 A  |
| Rated residual breaking and making capacity (I <sub>Δm</sub> ) | 6000 A  |
| 8/20 μs impulse withstand                                      | Type AC |
|                                                                | Type S/ |
|                                                                | 250 A   |
|                                                                | 3 kA    |

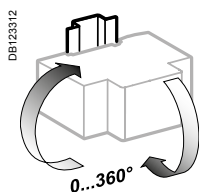
Behaviour in case of voltage drop  
Residual current protection down to 0 V according to IEC/EN 61009-1 § 3.3.8

### Additional characteristics

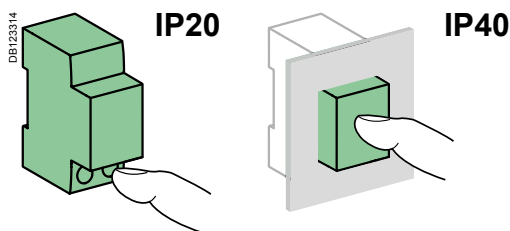
|                                                      |                                              |
|------------------------------------------------------|----------------------------------------------|
| Earth leakage protection with instantaneous tripping | 30 mA                                        |
| Degree of protection (IEC 60529)                     | Device only                                  |
|                                                      | Device in modular enclosure                  |
|                                                      | IP20                                         |
|                                                      | IP40                                         |
|                                                      | Insulation class II                          |
| Endurance (O-C)                                      | Electrical                                   |
|                                                      | ≤ 20 A                                       |
|                                                      | ≥ 25 A                                       |
|                                                      | 20,000 cycles                                |
|                                                      | 10,000 cycles                                |
|                                                      | Mechanical                                   |
|                                                      | 20,000 cycles                                |
| Overvoltage category (IEC 60364)                     | III                                          |
| Operating temperature                                | Type AC                                      |
|                                                      | Type S/                                      |
|                                                      | -5°C to +60°C                                |
|                                                      | -25°C to +60°C                               |
| Storage temperature                                  | -40°C to +85°C                               |
| Tropicalization (IEC 60068-1)                        | Treatment 2 (relative humidity 95 % to 55°C) |



Clip on DIN rail 35 mm.



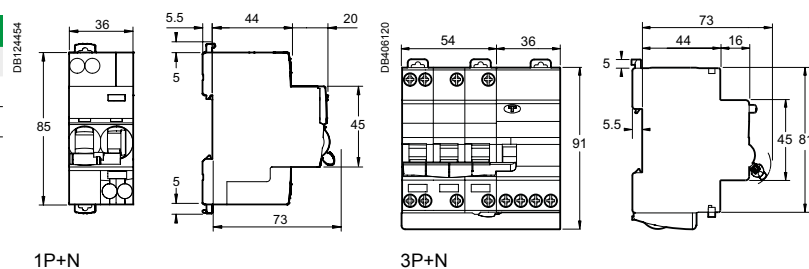
Indifferent position of installation.



## Weight (g)

| Residual current device |             |            |
|-------------------------|-------------|------------|
| Type                    | iDPN N Vigi | DPN N Vigi |
| 1P+N                    | 125         | -          |
| 3P+N                    | -           | 498        |

## Dimensions (mm)





■ The electrical auxiliaries are combined with iC60 circuit breakers, iLD residual current circuit breakers, remote tripping switch disconnectors

iSW-NA; they enable tripping or remote indication of their position (open/closed/tripped) upon a fault.

■ They are fastened by clips (without tools) to the left side of the breaker.

■ The iOF/SD+OF auxiliary is a 2-in-1 product: via a mechanical selector switch, it provides two contacts, OF+SD or OF+OF.

## Tripping auxiliaries:

### IEC/EN 60947-1

- iMN: undervoltage release
- iMNx: undervoltage release, independent from supply voltage
- iMX: shunt release
- iMX+OF: shunt release with open/close contact.

### EN 50550

- iMSU: overvoltage release.

## Indication auxiliaries:

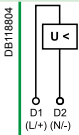
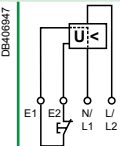
### IEC/EN 60947-5-1

- iOF: open/close contact
- iSD: fault indicating contact
- iOF/SD+OF: open/close contact and switchable OF or SD contact.

DB404939



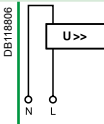
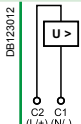
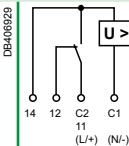
# Electrical auxiliaries for iC60, iID, iDPN Vigî, iSW-NA (cont.)

|                                                                             |      | Tripping                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auxiliaries                                                                 |      | iMN                                                                                                                                                                                                                                       | iMNx                                                                                                                                                                                                                                                                                                                                                            |
| Type                                                                        |      | Undervoltage release                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                             |      | Instantaneous                                                                                                                                                                                                                             | Independent of the supply voltage                                                                                                                                                                                                                                                                                                                               |
|                                                                             |      |                                                                                                                                                          |                                                                                                                                                                                                                                                                               |
| Function                                                                    |      | <ul style="list-style-type: none"> <li>Trips the device with which it is combined when its input voltage decreases (between 70 % and 35 % <math>U_n</math>). Prevents device closing again until its input voltage is restored</li> </ul> | <ul style="list-style-type: none"> <li>Tripping of the associated device by opening of the control circuit (e.g. push-button, dry contact)</li> <li>A drop in the supply voltage does not trip the associated device</li> <li>A locking push-button control allows the circuit protected (e.g. machine control) to be placed in safety configuration</li> </ul> |
| Wiring diagrams                                                             |      |                                                                                                                                                         |                                                                                                                                                                                                                                                                              |
| Use                                                                         |      | <ul style="list-style-type: none"> <li>Emergency stoppage by normally closed push button</li> <li>Ensures the safety of power supply circuits for several machines by preventing "uncontrolled" restarting</li> </ul>                     | <ul style="list-style-type: none"> <li>Emergency stoppage with fail-safe principle</li> <li>Insensitive to control circuit voltage variation to increase service continuity</li> <li><b>Important: Before any servicing operation switch off the mains power supply (voltage presence at terminals E1/E2)</b></li> </ul>                                        |
| Catalogue numbers                                                           |      | <b>A9A26960</b>                                                                                                                                                                                                                           | <b>A9A26969</b>                                                                                                                                                                                                                                                                                                                                                 |
| iC60, iID, iDPN Vigî, iSW-NA                                                |      | ■                                                                                                                                                                                                                                         | ■                                                                                                                                                                                                                                                                                                                                                               |
| Technical specifications                                                    |      |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                 |
| Rated voltage (U <sub>e</sub> )                                             | V AC | 220...240                                                                                                                                                                                                                                 | 220...240                                                                                                                                                                                                                                                                                                                                                       |
|                                                                             | V DC | —                                                                                                                                                                                                                                         | —                                                                                                                                                                                                                                                                                                                                                               |
| Standardised operating and non-response to voltage times (U <sub>a</sub> )* |      | —                                                                                                                                                                                                                                         | —                                                                                                                                                                                                                                                                                                                                                               |
| Maximum operating time                                                      |      | —                                                                                                                                                                                                                                         | —                                                                                                                                                                                                                                                                                                                                                               |
| Minimum non-response time                                                   |      | —                                                                                                                                                                                                                                         | —                                                                                                                                                                                                                                                                                                                                                               |
| Operating frequency                                                         | Hz   | 50/60                                                                                                                                                                                                                                     | 50/60                                                                                                                                                                                                                                                                                                                                                           |
| Red mechanical indicator                                                    |      | On front face                                                                                                                                                                                                                             | On front face                                                                                                                                                                                                                                                                                                                                                   |
| Width in 9 mm modules                                                       |      | 2                                                                                                                                                                                                                                         | 2                                                                                                                                                                                                                                                                                                                                                               |
| Operating current                                                           |      | —                                                                                                                                                                                                                                         | —                                                                                                                                                                                                                                                                                                                                                               |
| Number of contacts                                                          |      | —                                                                                                                                                                                                                                         | —                                                                                                                                                                                                                                                                                                                                                               |
| Operating temperature                                                       | °C   | -35...+70                                                                                                                                                                                                                                 | -35...+70                                                                                                                                                                                                                                                                                                                                                       |
| Storage temperature                                                         | °C   | -40...+85                                                                                                                                                                                                                                 | -40...+85                                                                                                                                                                                                                                                                                                                                                       |

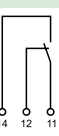
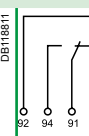
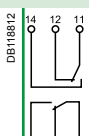
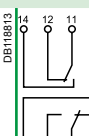
\*(U<sub>a</sub>)

Volages measured between the phase and the neutral conductor, at which the iMSU device must control the associated protective device.

# Electrical auxiliaries for iC60, iID, iDPN Vigī, iSW-NA (cont.)

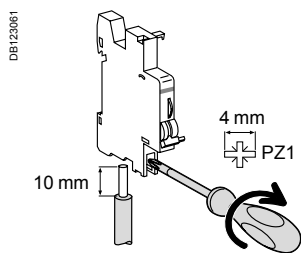
| iMSU                                                                                                                                                                                                                                                                       |          |          |          |          |   | iMX                                                                                               |                 |                 | iMX+OF                                                                                                                                                                 |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|---|---------------------------------------------------------------------------------------------------|-----------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Overvoltage release                                                                                                                                                                                                                                                        |          |          |          |          |   | Shunt release                                                                                     |                 |                 | With Open/Close auxiliary contact                                                                                                                                      |                 |
|                                                                                                                                                                                           |          |          |          |          |   |                  |                 |                 |                                                                                     |                 |
| <ul style="list-style-type: none"> <li>Switches off the power supply by opening the breaker with which it is combined, in the event that the phase/neutral voltage is exceeded (loss of neutral). For a four-phase network, use three iMSU tripping auxiliaries</li> </ul> |          |          |          |          |   | <ul style="list-style-type: none"> <li>Trips the breaker when powered</li> </ul>                  |                 |                 | <ul style="list-style-type: none"> <li>Includes an open/close contact (OF) to indicate the "open" or "closed" position of the breaker</li> </ul>                       |                 |
|                                                                                                                                                                                          |          |          |          |          |   |                 |                 |                 |                                                                                    |                 |
| <ul style="list-style-type: none"> <li>Protection of equipment against overvoltages on the electrical network (neutral conductor break)</li> <li>Voltage monitoring between phase and neutral conductors</li> </ul>                                                        |          |          |          |          |   | <ul style="list-style-type: none"> <li>Emergency stoppage by normally open push button</li> </ul> |                 |                 | <ul style="list-style-type: none"> <li>Emergency stoppage by normally open push button</li> <li>Remote indication of the position of the associated breaker</li> </ul> |                 |
| <b>A9A26500</b>                                                                                                                                                                                                                                                            |          |          |          |          |   | <b>A9A26476</b>                                                                                   | <b>A9A26477</b> | <b>A9A26478</b> | <b>A9A26946</b>                                                                                                                                                        | <b>A9A26948</b> |
| ■                                                                                                                                                                                                                                                                          |          |          |          |          |   | ■                                                                                                 | ■               | ■               | ■                                                                                                                                                                      | ■               |
| 230                                                                                                                                                                                                                                                                        |          |          |          |          |   | 100...415                                                                                         | 48              | 12...24         | 100...415                                                                                                                                                              | 12...24         |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | 110...130                                                                                         | 48              | 12...24         | 110...130                                                                                                                                                              | 12...24         |
| 255 V AC                                                                                                                                                                                                                                                                   | 275 V AC | 300 V AC | 350 V AC | 400 V AC | — | —                                                                                                 | —               | —               | —                                                                                                                                                                      | —               |
| No tripping                                                                                                                                                                                                                                                                | 15 s     | 5 s      | 0.75 s   | 0.20 s   | — | —                                                                                                 | —               | —               | —                                                                                                                                                                      | —               |
|                                                                                                                                                                                                                                                                            | 3 s      | 1 s      | 0.25 s   | 0.07 s   | — | —                                                                                                 | —               | —               | —                                                                                                                                                                      | —               |
| 50/60                                                                                                                                                                                                                                                                      |          |          |          |          |   | 50/60                                                                                             |                 |                 | 50/60                                                                                                                                                                  |                 |
| On front face                                                                                                                                                                                                                                                              |          |          |          |          |   | On front face                                                                                     |                 |                 | On front face                                                                                                                                                          |                 |
| 2                                                                                                                                                                                                                                                                          |          |          |          |          |   | 2                                                                                                 |                 |                 | 2                                                                                                                                                                      |                 |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | —                                                                                                 |                 |                 | 10 mA mini, 6 A maxi                                                                                                                                                   |                 |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | —                                                                                                 |                 |                 | ≤ 24 V DC                                                                                                                                                              |                 |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | —                                                                                                 |                 |                 | 48 V DC                                                                                                                                                                |                 |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | —                                                                                                 |                 |                 | ≤ 130 V DC                                                                                                                                                             |                 |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | —                                                                                                 |                 |                 | ≤ 240 V AC                                                                                                                                                             |                 |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | —                                                                                                 |                 |                 | 415 V AC                                                                                                                                                               |                 |
| —                                                                                                                                                                                                                                                                          |          |          |          |          |   | —                                                                                                 |                 |                 | 1 NO/NC                                                                                                                                                                |                 |
| -35...+70                                                                                                                                                                                                                                                                  |          |          |          |          |   | -35...+70                                                                                         |                 |                 | -35...+70                                                                                                                                                              |                 |
| -40...+85                                                                                                                                                                                                                                                                  |          |          |          |          |   | -40...+85                                                                                         |                 |                 | -40...+85                                                                                                                                                              |                 |

# Electrical auxiliaries for iC60, iID, iDPN Vigî, iSW-NA (cont.)

|                              |                                                                                   | Indication                                                                                                                |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auxiliaries                  |                                                                                   | iOF                                                                                                                       | iSD                                                                                                                                                                                                                                                           | iOF/SD+OF                                                                                                                                                                 |
| Type                         |                                                                                   | Open/close auxiliary contact                                                                                              | Fault indicating contact                                                                                                                                                                                                                                      | Double open/close or fault indicating contact                                                                                                                             |
|                              |  |                                          |                                                                                                                                                                            |                                                                                                                                                                           |
| Function                     |                                                                                   | <ul style="list-style-type: none"> <li>Changeover contact indicates "open" or "closed" position of the breaker</li> </ul> | <ul style="list-style-type: none"> <li>Changeover contact indicates position of the breaker; upon: <ul style="list-style-type: none"> <li>electrical fault</li> <li>action on tripping auxiliary</li> </ul> </li> <li>Same indication as VISI-TRIP</li> </ul> | <ul style="list-style-type: none"> <li>The iOF/SD+OF auxiliary is a 2-in-1 product: via a mechanical selector switch, it provides two contacts, OF+SD or OF+OF</li> </ul> |
| Wiring diagrams              |                                                                                   |                                         |                                                                                                                                                                             |   |
| Use                          |                                                                                   | <ul style="list-style-type: none"> <li>Remote indication of the position of the associated breaker</li> </ul>             | <ul style="list-style-type: none"> <li>Remote indication of tripping upon a fault of the associated breaker</li> </ul>                                                                                                                                        | <ul style="list-style-type: none"> <li>Remote indication of position and/or tripping upon a fault of the associated breaker</li> </ul>                                    |
| Catalogue numbers            |                                                                                   | A9A26924                                                                                                                  | A9A26927                                                                                                                                                                                                                                                      | A9A26929                                                                                                                                                                  |
| iC60, iID, iDPN Vigî, iSW-NA |                                                                                   | ■                                                                                                                         | ■                                                                                                                                                                                                                                                             | ■                                                                                                                                                                         |
| Technical specifications     |                                                                                   |                                                                                                                           |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
| Rated voltage (Ue)           | V AC                                                                              | 24...415                                                                                                                  | 24...415                                                                                                                                                                                                                                                      | 24...415                                                                                                                                                                  |
|                              | V DC                                                                              | 24...130                                                                                                                  | 24...130                                                                                                                                                                                                                                                      | 24...130                                                                                                                                                                  |
| Operating frequency          | Hz                                                                                | 50/60                                                                                                                     | 50/60                                                                                                                                                                                                                                                         | 50/60                                                                                                                                                                     |
|                              |                                                                                   |                                                                                                                           |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
| Red mechanical indicator     |                                                                                   | –                                                                                                                         | On front face                                                                                                                                                                                                                                                 | On front face                                                                                                                                                             |
| Test function                |                                                                                   | On toggle                                                                                                                 | On toggle                                                                                                                                                                                                                                                     | On toggle                                                                                                                                                                 |
| Width in 9 mm modules        |                                                                                   | 1                                                                                                                         | 1                                                                                                                                                                                                                                                             | 1                                                                                                                                                                         |
| Operating current            |                                                                                   | 10 mA mini, 6 A maxi                                                                                                      |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
|                              |                                                                                   | 24 V DC 6 A                                                                                                               |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
|                              |                                                                                   | 48 V DC 2 A                                                                                                               |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
|                              |                                                                                   | 60 V DC 1.5 A                                                                                                             |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
|                              |                                                                                   | 130 V DC 1 A                                                                                                              |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
|                              |                                                                                   | 24...240 V AC 6 A                                                                                                         |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
|                              |                                                                                   | 415 V AC 3 A                                                                                                              |                                                                                                                                                                                                                                                               |                                                                                                                                                                           |
| Number of contacts           |                                                                                   | 1 NO/NC                                                                                                                   | 1 NO/NC                                                                                                                                                                                                                                                       | 1 NO/NC + 1 NO/NC                                                                                                                                                         |
| Operating temperature        | °C                                                                                | -35...+70                                                                                                                 | -35...+70                                                                                                                                                                                                                                                     | -35...+70                                                                                                                                                                 |
| Storage temperature          | °C                                                                                | -40...+85                                                                                                                 | -40...+85                                                                                                                                                                                                                                                     | -40...+85                                                                                                                                                                 |

# Electrical auxiliaries for iC60, iID, iDPN Vigī, iSW-NA (cont.)

## Connection



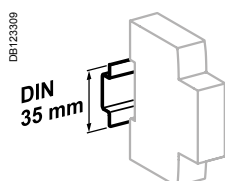
| Type                   | Tightening torque | Copper cables                      |                                        | Multi-cables                        |                                     |
|------------------------|-------------------|------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------|
|                        |                   | Rigid                              | Flexible                               | Rigid                               | Cables with ferrule                 |
| Indication auxiliaries | 1 N.m             | DB122945<br>1 to 4 mm <sup>2</sup> | DB123007<br>0.5 to 2.5 mm <sup>2</sup> | DB123011<br>2 x 2.5 mm <sup>2</sup> | DB123008<br>2 x 1.5 mm <sup>2</sup> |
| Tripping auxiliaries   | 1 N.m             | 1 to 6 mm <sup>2</sup>             | 0.5 to 4 mm <sup>2</sup>               | 2 x 2.5 mm <sup>2</sup>             | 2 x 2.5 mm <sup>2</sup>             |

## Technical data

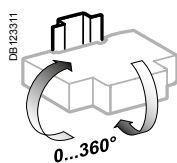
### Weight (g)

#### Electrical auxiliaries

| Type      |    |
|-----------|----|
| iMN       | 69 |
| iMNx      | 79 |
| iMSU      | 68 |
| iMX       | 64 |
| iMX+OF    | 68 |
| iOF       | 32 |
| iSD       | 33 |
| iOF/SD+OF | 43 |

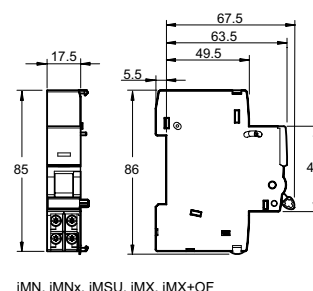
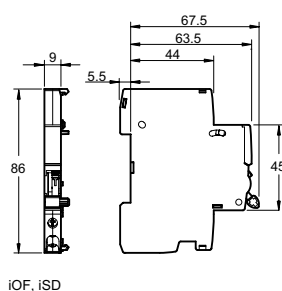
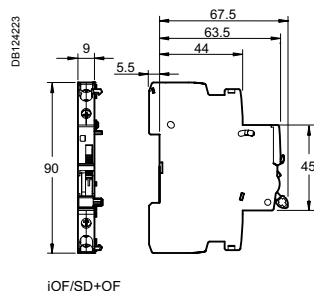


Clip on DIN rail 35 mm.



Indifferent position of installation.

## Dimensions (mm)



PB100251-40



The RCA remote control system allows:

- Remote electrical control (opening and closing) of circuit breakers with or without Vigi add-on RCD, with or without auxiliary.
- Circuit-breaker resetting after tripping, in accordance with safety principles and the regulations in force.
- Local control by operating handle.
- Circuit placing in safety configuration by padlocking.

2 choices of operation after tripping:

- A: Enabling of remote circuit-breaker resetting;
- B: Inhibition of remote resetting.

## Catalogue numbers

| RCA remote control                   |                    |             |                       |
|--------------------------------------|--------------------|-------------|-----------------------|
| Type                                 |                    |             | Width in 9 mm modules |
| For circuit breakers<br>1P, 1P+N, 2P | Voltage            |             |                       |
|                                      | 230 V AC, 50/60 Hz | A9C70112    | 7                     |
| For 3P, 4P circuit breakers          | 230 V AC, 50/60 Hz | A9C70114    | 7                     |
|                                      | Auxiliaries        |             |                       |
|                                      |                    | See page 21 |                       |

DB123813



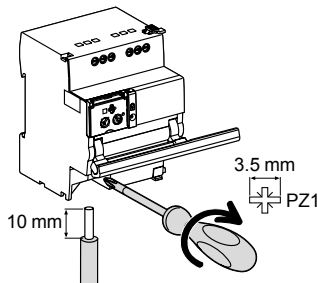
DB123572



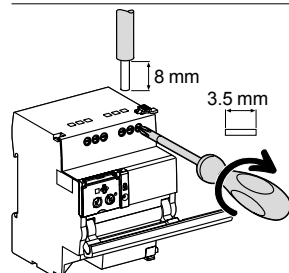
| Legend                |   |                                                                 |
|-----------------------|---|-----------------------------------------------------------------|
| Type                  |   | Application                                                     |
| OFF                   |   | All remote control inhibited                                    |
| auto                  | A | Circuit breaker remote reclosing after tripping allowed         |
|                       | B | Circuit breaker remote reclosing after tripping inhibited       |
| Green indicator lamp  |   | Remote control possible                                         |
| Orange indicator lamp |   | Remote control impossible                                       |
| Y1                    |   | Latched order local control                                     |
| Y2                    |   | Impulse-type or latched order local control (depending on mode) |
| Y3                    |   | Latched order centralized control                               |

## Connection

DB123565



DB123568



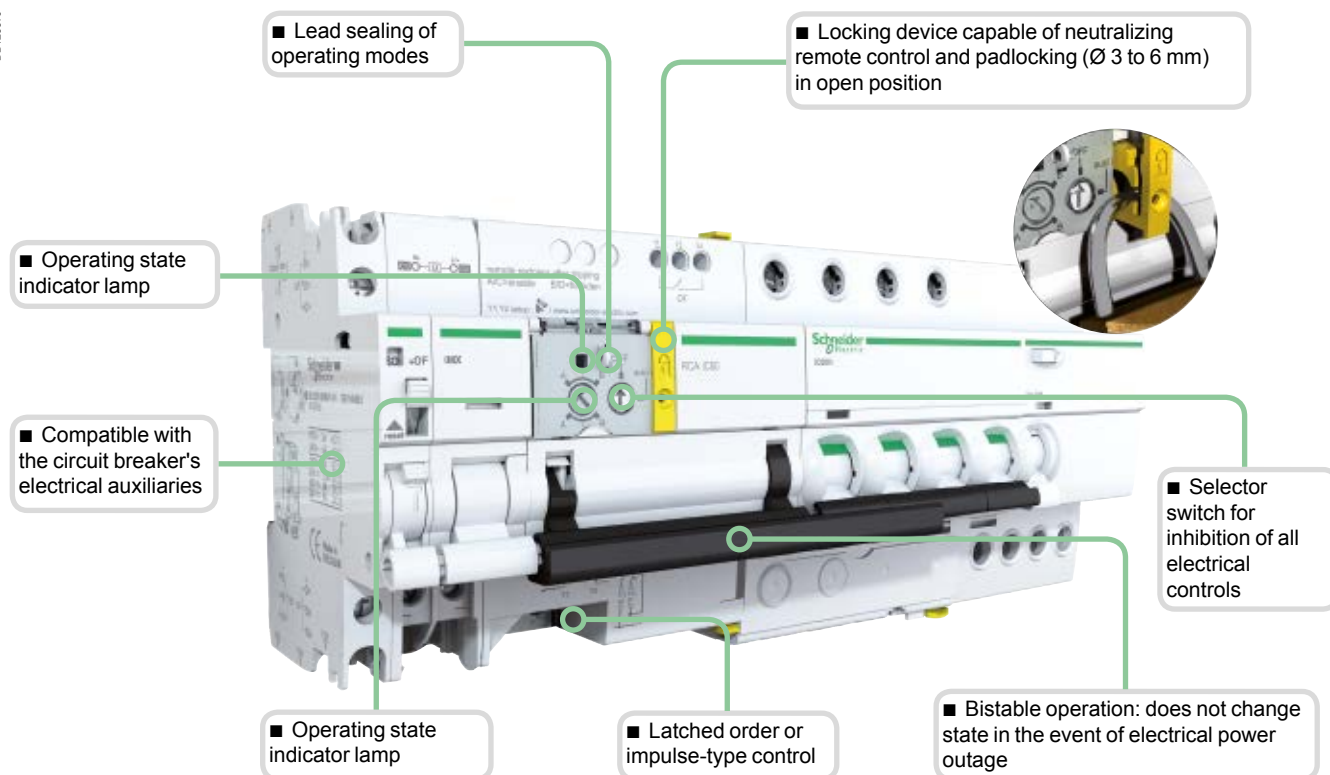
## Without accessories

| Terminal                             | Tightening torque | Copper cables                                                    |                                                                  |                                                                  |
|--------------------------------------|-------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
|                                      |                   | Rigid                                                            | Flexible                                                         | Flexible with ferrule                                            |
| Power supply (N/P)<br>Inputs (Y1/Y2) | 1 N.m             | DB123545<br>                                                     | DB123553<br>                                                     | DB123554<br>                                                     |
|                                      |                   | 0.5 to 10 mm <sup>2</sup><br>2 x 0.5 to 2 x 2.5 mm <sup>2</sup>  | 0.5 to 6 mm <sup>2</sup><br>2 x 0.5 to 2 x 2.5 mm <sup>2</sup>   | 0.5 to 4 mm <sup>2</sup><br>2 x 0.5 to 2 x 2.5 mm <sup>2</sup>   |
| Outputs (OF)                         | 0.7 N.m           | 0.5 to 2.5 mm <sup>2</sup><br>2 x 0.5 to 2 x 1.5 mm <sup>2</sup> | 0.5 to 2.5 mm <sup>2</sup><br>2 x 0.5 to 2 x 1.5 mm <sup>2</sup> | 0.5 to 1.5 mm <sup>2</sup><br>2 x 0.5 to 2 x 1.5 mm <sup>2</sup> |

# RCA remote controls (cont.)

For iC60 circuit breakers

DB123576



DB123578



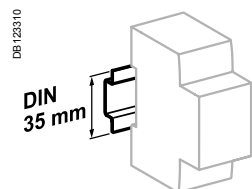
DB123579



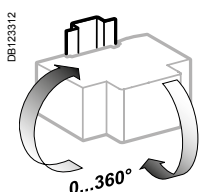
## Legend

| Type | Application                                                     |
|------|-----------------------------------------------------------------|
| Y1   | Latched order local control                                     |
| Y2   | Impulse-type or latched order local control (depending on mode) |
| N    | 230 V AC power supply                                           |
| P    |                                                                 |
| OF   | Circuit-breaker state indication contact (open/closed)          |

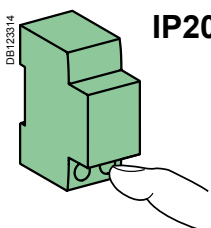
11 12 14



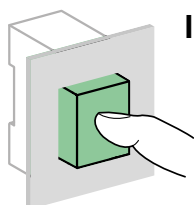
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

## Technical data

### Control circuit

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Supply voltage (Ue) (N/P)                  | 230 V AC, 50/60 Hz            |
| Control voltage (Uc) Type 1 inputs (Y1/Y2) | 230 V AC (as per IEC 61131-2) |
| Min. duration of control order (Y2)        | ≥ 200 ms                      |
| Response time (Y2)                         | < 500 ms                      |
| Consumption                                | ≤ 1 W                         |

Thermal self-protection with automatic Reset against overheating of the control circuit due to an abnormal number of operations

### Endurance (O-C) (RCA combined with a circuit breaker)

|                       |               |
|-----------------------|---------------|
| Electrical/Mechanical | 10,000 cycles |
|-----------------------|---------------|

### Indication / Remote control

|                                               |          |                   |
|-----------------------------------------------|----------|-------------------|
| Potential free changeover contact output (OF) | Min.     | 24 V AC/DC, 10 mA |
|                                               | Max.     | 230 V AC, 1 A     |
| Input (Y1/Y2)                                 | 230 V AC | 5 mA              |

### Additional characteristics

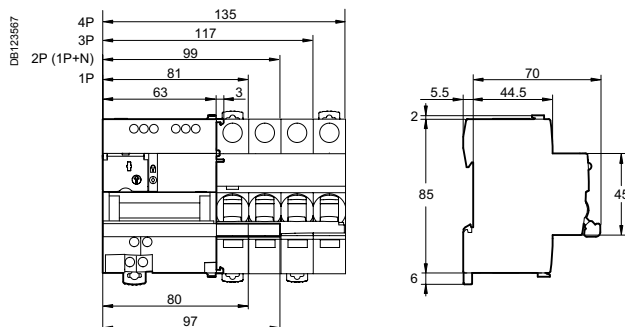
|                                        |                               |                                                     |
|----------------------------------------|-------------------------------|-----------------------------------------------------|
| Degree of protection (IEC 60529)       | Device only                   | IP20                                                |
|                                        | Device in a modular enclosure | IP40                                                |
| Insulation voltage (Ui)                |                               | 400 V                                               |
| Degree of pollution (IEC 60947)        |                               | 3                                                   |
| Rated impulse withstand voltage (Uimp) |                               | 6 kV                                                |
| Operating temperature                  |                               | -25°C to +60°C                                      |
| Storage temperature                    |                               | -40°C to +70°C                                      |
| Tropicalization                        |                               | Treatment 2<br>(relative humidity of 93 % at +40°C) |

## Weight (g)

### Remote controls

| Type                              | RCA |
|-----------------------------------|-----|
| For 1P, 1P+N, 2P circuit breakers | 400 |
| For 3P, 3P+N, 4P circuit breakers | 430 |

## Dimensions (mm)



DB110619



DB123430



Country approval pictograms

IEC/EN 61008-1

- The iID K residual current circuit breakers provide:
  - protection of persons against electric shock by direct contact
  - protection of persons against electric shock by indirect contact,
  - protection of installations against the risk of fire.

PB104497-40



PB104498-40

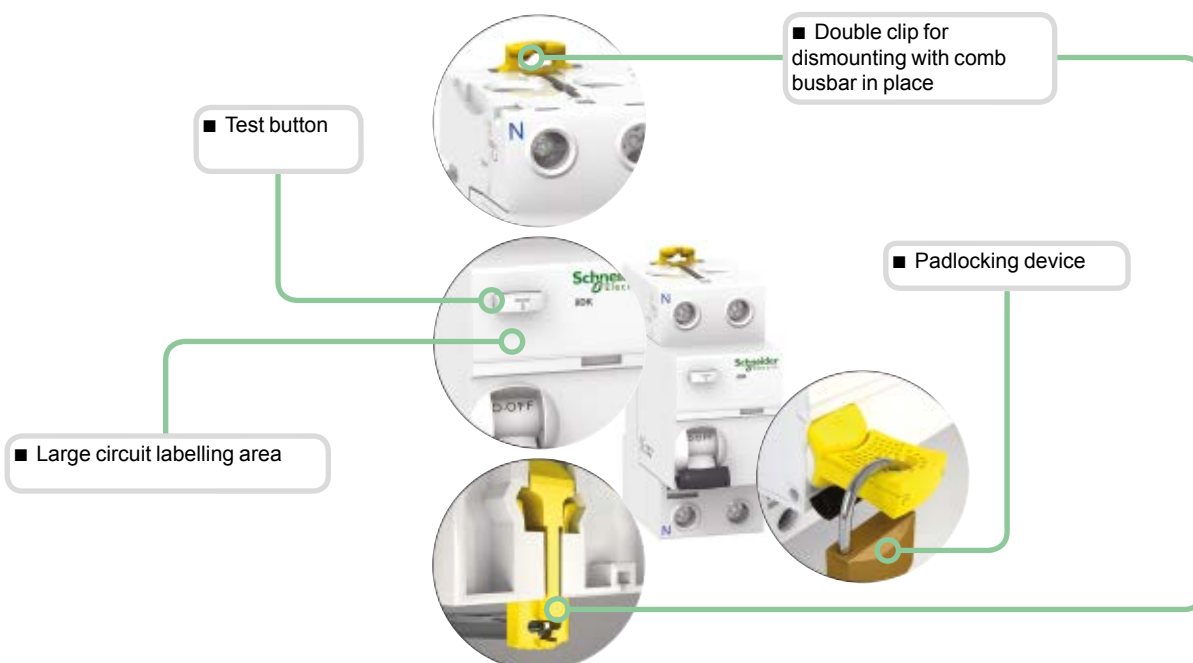


## Catalogue numbers

### iID K residual current circuit breakers

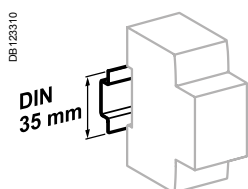
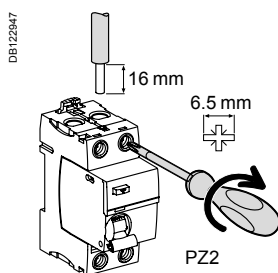
| Type                | AC                  | Width in 9-mm modules |
|---------------------|---------------------|-----------------------|
| Product             | iID K               |                       |
| Auxiliaries         | Without auxiliaries |                       |
| 2P                  | Sensitivity 30 mA   |                       |
|                     | Rating 25 A         | A9R50225              |
|                     | 40 A                | A9R50240              |
| 4P                  | Sensitivity 30 mA   |                       |
|                     | Rating 25 A         | A9R50425              |
|                     | 40 A                | A9R50440              |
|                     | 63 A                | A9R70463              |
| Voltage rating (Ue) |                     | 2P 230 - 240 V        |
|                     |                     | 4P 400 - 415 V        |
| Operating frequency |                     | 50/60 Hz              |

PB104497-40

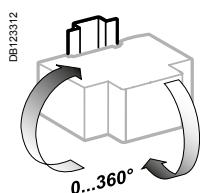


## Connection

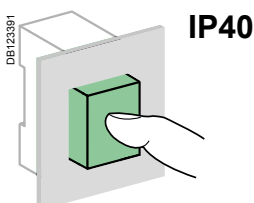
| Type  | Tightening torque | Copper cables           |                          |
|-------|-------------------|-------------------------|--------------------------|
|       |                   | Rigid                   | Flexible or with ferrule |
| iLD K | 3.5 N.m           | 1 to 35 mm <sup>2</sup> | 1 to 25 mm <sup>2</sup>  |



Clip on DIN rail 35 mm.



Indifferent position of installation.



## Technical data

### Main characteristics

#### According to IEC/EN 61008-1

|                                                    |                                                                             |
|----------------------------------------------------|-----------------------------------------------------------------------------|
| Insulation voltage (Ui)                            | 440 V                                                                       |
| Pollution degree                                   | 2                                                                           |
| Rated impulse withstand voltage (Uimp)             | 4 kV                                                                        |
| Making and breaking capacity (Im/IΔm)              | 25 to 40 A<br>63 A                                                          |
| Surge current withstand (8/20 μs) without tripping | Up to 200 Å                                                                 |
| Conditional rated short circuit current (Inc/IΔc)  | With iC60N/H/L<br>6000 A                                                    |
|                                                    | With fuse 100 A<br>4500 A                                                   |
| Behaviour in case of voltage drop                  | Residual current protection down to 0 V according to IEC/EN 61008-1 § 3.3.4 |

### Additional characteristics

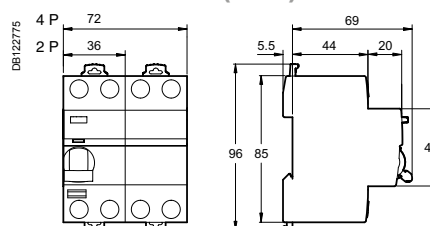
|                       |                             |                                  |
|-----------------------|-----------------------------|----------------------------------|
| Degree of protection  | Device in modular enclosure | IP40                             |
| Endurance (O-C)       | Electrical<br>Mechanical    | 2000 cycles (AC1)<br>5000 cycles |
| Operating temperature |                             | -5°C to +60°C                    |
| Storage temperature   |                             | -40°C to +85°C                   |

## Weight (g)

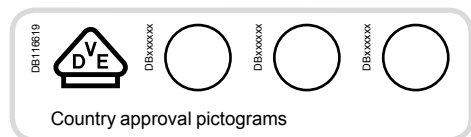
### Residual current circuit breakers

| Type | iLD K |
|------|-------|
| 2P   | 210   |
| 4P   | 370   |

## Dimensions (mm)



# iK60N circuit breakers (curve C)



## IEC/EN 60898-1

- iK60N circuit breakers are circuit breakers which combine the following functions:
  - circuit protection against short-circuit currents,
  - circuit protection against overload currents,
  - disconnection, opening and closing.

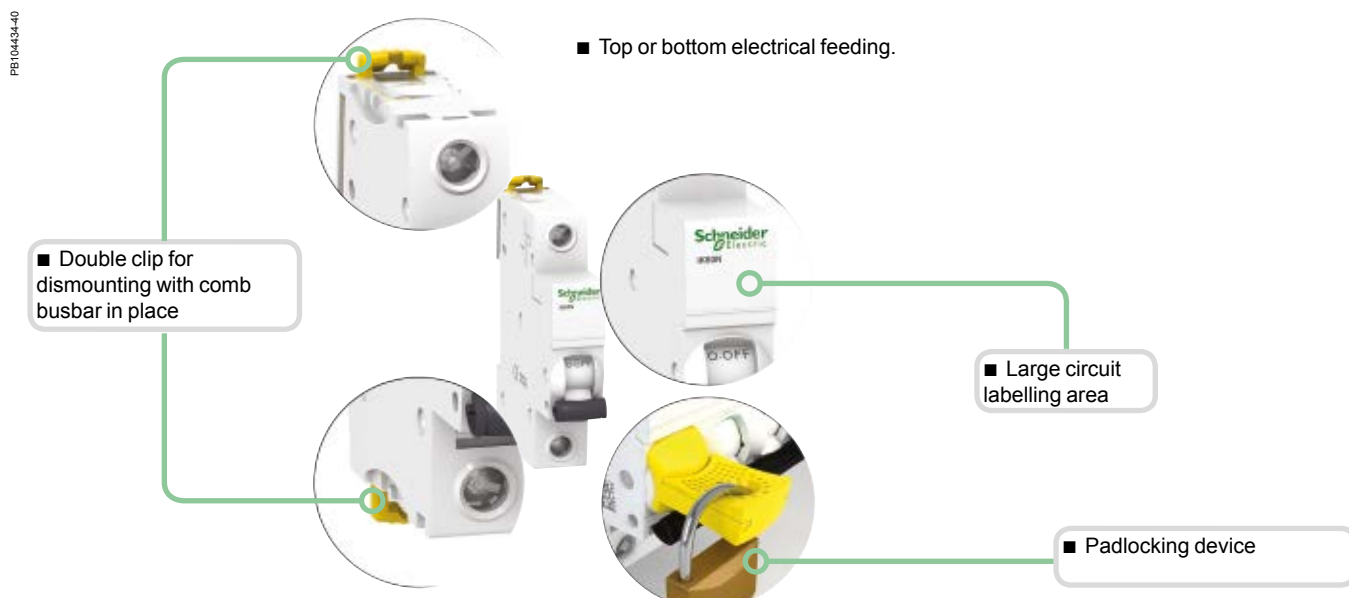
### iK60N circuit breaker 50/60 Hz

| Breaking capacity in short circuit (I <sub>cn</sub> ) as per IEC/EN 60898-1 |        | Service breaking capacity (I <sub>cs</sub> )<br>100 % of I <sub>cn</sub> |
|-----------------------------------------------------------------------------|--------|--------------------------------------------------------------------------|
| Ph/Ph                                                                       | 400 V  |                                                                          |
| Ph/N                                                                        | 230 V  |                                                                          |
| Rating (I <sub>n</sub> ) 2 to 32 A                                          | 6000 A |                                                                          |

## Catalogue numbers

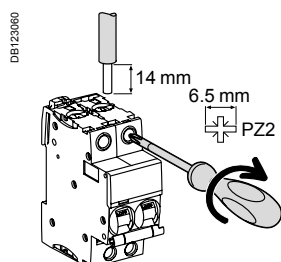
### iK60N circuit breaker

| Type                     | 1P                                  | 3P       |
|--------------------------|-------------------------------------|----------|
|                          |                                     |          |
| Auxiliaries              | Without auxiliaries                 |          |
| Vigi iC60                | Without Vigi iC60                   |          |
| Rating (I <sub>n</sub> ) | Curve C                             |          |
| 2 A                      | A9K24102                            | -        |
| 6 A                      | A9K24106                            | -        |
| 10 A                     | A9K24110                            | -        |
| 16 A                     | A9K24116                            | -        |
| 20 A                     | -                                   | A9K24320 |
| 25 A                     | -                                   | A9K24325 |
| 32 A                     | -                                   | A9K24332 |
| Operating frequency      | 50/60 Hz                            | 50/60 Hz |
| Width in 9-mm modules    | 2                                   | 6        |
| Accessories              | Padlocking device cat. no. A9A26970 |          |

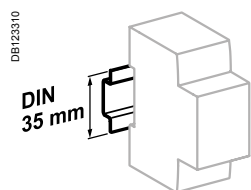


# iK60N circuit breakers (curve C) (cont.)

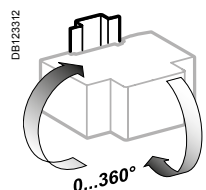
## Connection



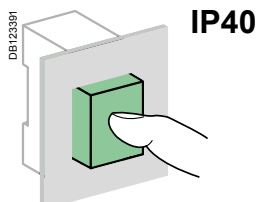
| Type    | Rating    | Tightening torque | Copper cables           |                          |
|---------|-----------|-------------------|-------------------------|--------------------------|
|         |           |                   | Rigid                   | Flexible or with ferrule |
| C curve | 2 to 25 A | 2 N.m             | 1 to 25 mm <sup>2</sup> | 1 to 16 mm <sup>2</sup>  |
|         | 32 A      | 3.5 N.m           | 1 to 35 mm <sup>2</sup> | 1 to 25 mm <sup>2</sup>  |



Clip on DIN rail 35 mm.



Indifferent position of installation.



## Technical data

### Main characteristics

#### According to IEC/EN 60898-1

|                                                                              |                                    |
|------------------------------------------------------------------------------|------------------------------------|
| Insulation voltage (U <sub>i</sub> )                                         | 440 V AC                           |
| Pollution degree                                                             | 2                                  |
| Rated impulse withstand voltage (U <sub>imp</sub> )                          | 4 kV                               |
| Thermal tripping                                                             | Reference temperature              |
|                                                                              | Temperature derating               |
| Magnetic tripping                                                            | C curve                            |
| Limitation class                                                             | 3                                  |
| Rated making and breaking capacity of an individual pole (I <sub>cn1</sub> ) | I <sub>cn1</sub> = I <sub>cn</sub> |

### Additional characteristics

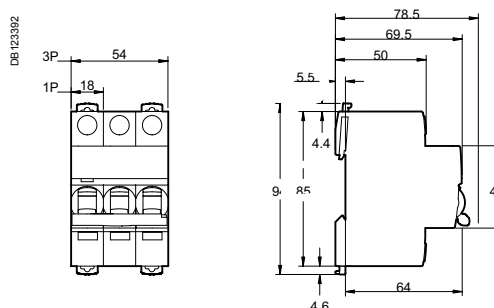
|                                  |                             |                |
|----------------------------------|-----------------------------|----------------|
| Degree of protection (IEC 60529) | Device in modular enclosure | IP40           |
| Endurance (O-C)                  | Electrical                  | 10,000 cycles  |
|                                  | Mechanical                  | 20,000 cycles  |
| Overvoltage category (IEC 60364) |                             | III            |
| Operating temperature            |                             | -25°C to +60°C |
| Storage temperature              |                             | -40°C to +85°C |

## Weight (g)

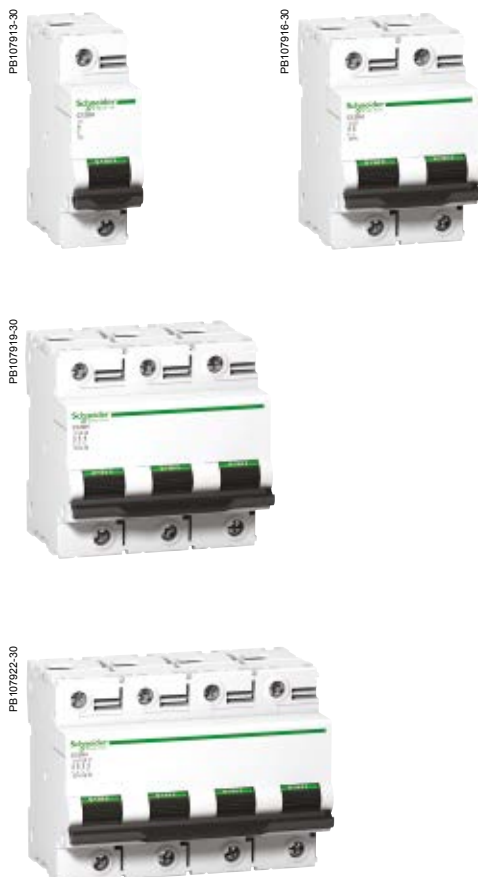
### Circuit-breaker

| Type | iK60N |
|------|-------|
| 1P   | 100   |
| 3P   | 300   |

## Dimensions (mm)



# C120H circuit breakers (curves C, D)



## IEC/EN 60898-1

C120H circuit breakers are multistandard circuit breakers that combine the following functions:

- circuit protection against short-circuit currents
- circuit protection against overload currents
- suitability for isolation in the industrial sector to IEC/EN 60947-2
- fault tripping and indication by adding auxiliaries.

### Alternating current (AC) 50/60 Hz

| Breaking capacity (Icu) to IEC/EN 60947-2 |             |              |                       |       | Service breaking capacity (Ics) |
|-------------------------------------------|-------------|--------------|-----------------------|-------|---------------------------------|
| Type                                      | Voltage (V) |              |                       |       |                                 |
| 1P                                        | 12 to 130 V | 220 to 240 V | 380 to 415 V          | 440 V | 50 % of Icu                     |
| Rating (In) 80 to 125 A                   | 30 kA       | 15 kA        | 4,5 kA <sup>(1)</sup> | -     |                                 |
| 2P, 3P, 4P                                | 12 to 130 V | 220 to 240 V | 380 to 415 V          | 440 V | 50 % of Icu                     |
| 80 to 125 A                               | -           | 30 kA        | 15 kA                 | 10 kA |                                 |

### Breaking capacity (Icn) to IEC/EN 60898-1

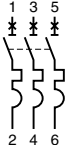
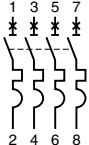
| Type                    | Voltage (V)  | Service breaking capacity (Ics) |
|-------------------------|--------------|---------------------------------|
| 1P, 2P, 3P, 4P          | 230 to 400 V |                                 |
| Rating (In) 80 to 125 A | 15000 A      | 50 % of Icn                     |

(1) One-pole breaking capacity in IT isolated neutral system (double fault).

### Direct current (DC)

| Breaking capacity (Icu) according to IEC/EN 60947-2 |              |         |         |         | Service<br>breaking<br>capacity (Ics) |              |
|-----------------------------------------------------|--------------|---------|---------|---------|---------------------------------------|--------------|
|                                                     | Voltage (Ue) |         |         |         |                                       |              |
| Between +/-                                         | 12 to 125 V  | ≤ 144 V | ≤ 250 V | ≤ 375 V |                                       | ≤ 500 V      |
| Number of poles                                     | 1P           |         | 2P      | 3P      |                                       | 4P           |
| Rating (In) 80 to 125 A                             | 20 kA        | 15 kA   | 15 kA   | 15 kA   | 15 kA                                 | 100 % of Icu |

## Catalogue numbers

| C120H circuit breaker |                                                                                                      |          |                                                                                                      |          |                                                                                                       |          |                                                                                                        |          |
|-----------------------|------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------|----------|
| Type                  | 1P                                                                                                   |          | 2P                                                                                                   |          | 3P                                                                                                    |          | 4P                                                                                                     |          |
|                       | <div>EZ7069</div> |          | <div>EZ7070</div> |          | <div>EZ7071</div> |          | <div>EZ7072</div> |          |
| Auxiliaries           | See page 41                                                                                          |          |                                                                                                      |          |                                                                                                       |          |                                                                                                        |          |
| Vigi C120             | See page 36                                                                                          |          |                                                                                                      |          |                                                                                                       |          |                                                                                                        |          |
| Rating (In)           | Curve                                                                                                |          | Curve                                                                                                |          | Curve                                                                                                 |          | Curve                                                                                                  |          |
|                       | C                                                                                                    | D        | C                                                                                                    | D        | C                                                                                                     | D        | C                                                                                                      | D        |
| 80 A                  | A9N18446                                                                                             | A9N18490 | A9N18457                                                                                             | A9N18501 | A9N18468                                                                                              | A9N18512 | A9N18479                                                                                               | A9N18523 |
| 100 A                 | A9N18447                                                                                             | A9N18491 | A9N18458                                                                                             | A9N18502 | A9N18469                                                                                              | A9N18513 | A9N18480                                                                                               | A9N18524 |
| 125 A                 | A9N18448                                                                                             | A9N18492 | A9N18459                                                                                             | A9N18503 | A9N18470                                                                                              | A9N18514 | A9N18481                                                                                               | A9N18525 |
| Width in 9 mm modules | 3                                                                                                    |          | 6                                                                                                    |          | 9                                                                                                     |          | 12                                                                                                     |          |
| Accessories           | See page 100                                                                                         |          |                                                                                                      |          |                                                                                                       |          |                                                                                                        |          |

# C120H circuit breakers (curves C, D) (cont.)

PB107916-40

■ Terminals insulated to IP20



■ Location for 4 clip-on terminal markers



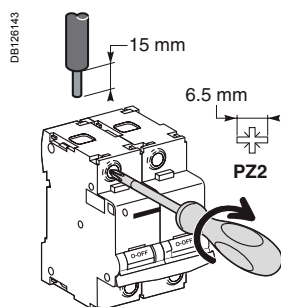
## Positive contact indication

- Suitability for isolation in the industrial sector to IEC/EN 60947-2.
- The presence of the green strip guarantees that the contacts open physically and allows work to be carried out safely on the downstream circuit.

- Longer product service life thanks to:
  - good overvoltage withstand capacity: products designed to provide a high industrial performance level (degree of pollution, rated impulse withstand voltage and insulation voltage).
  - high limitation performances (see limitation curves).
  - fast closure independent of toggle operating speed.
- Remote indication of the open/closed/tripped state by auxiliary contacts (optional).
- Power supply from above or below.

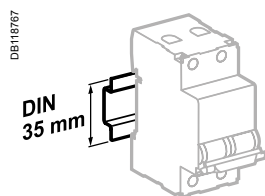
# C120H circuit breakers (curves C, D) (cont.)

## Connection

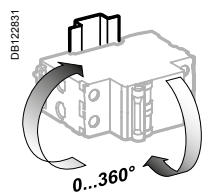


|             |                   | Without access.                                                                               |                                                                                               | With accessories                                                                              |                                                                                                 |                                                                                                 |                        |
|-------------|-------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------|
| Rating      | Tightening torque | Copper cables                                                                                 |                                                                                               | 50 mm <sup>2</sup> Al term.                                                                   | Screw-on connection for ring terminal <sup>(1)</sup>                                            | Multi-cable terminal                                                                            |                        |
|             |                   | Rigid                                                                                         | Flexible or with ferrule                                                                      |                                                                                               |                                                                                                 | Rigid cables                                                                                    | Flexible cables        |
|             |                   | DB122945<br> | DB122946<br> | DB122935<br> | DB118789<br> | DB118787<br> |                        |
| 80 to 125 A | 3.5 N.m           | 1.5 to 50 mm <sup>2</sup>                                                                     | 1.5 to 35 mm <sup>2</sup>                                                                     | 16 to 50 mm <sup>2</sup>                                                                      | Ø 5 mm                                                                                          | 3 x 16 mm <sup>2</sup>                                                                          | 3 x 10 mm <sup>2</sup> |

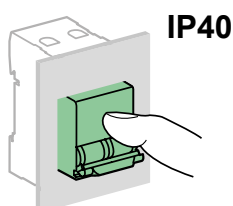
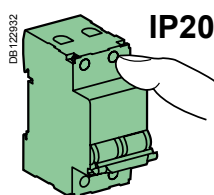
(1) For lugs up to 80 A, front or rear accessories.



Clips onto 35 mm DIN rail.



Any installation position.



## Technical data

### Main characteristics

#### To IEC/EN 60947-2

|                                                     |                       |
|-----------------------------------------------------|-----------------------|
| Insulation voltage (U <sub>i</sub> )                | 500 V AC              |
| Degree of pollution                                 | 3                     |
| Rated impulse withstand voltage (U <sub>imp</sub> ) | 6 kV                  |
| Thermal tripping                                    | Reference temperature |
|                                                     | 50°C                  |

#### To IEC/EN 60898-1

|                   |         |                          |
|-------------------|---------|--------------------------|
| Magnetic tripping | Curve C | 5 and 10 I <sub>n</sub>  |
|                   | Curve D | 10 and 14 I <sub>n</sub> |
| Limitation class  |         | 3                        |

### Additional characteristics

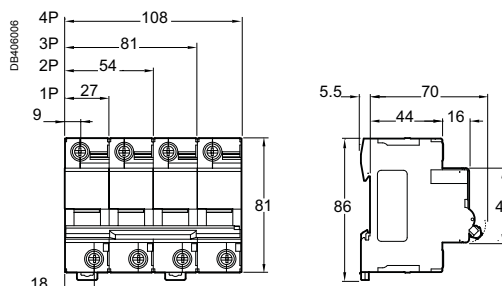
|                                  |                               |                                             |
|----------------------------------|-------------------------------|---------------------------------------------|
| Degree of protection (IEC 60529) | Device only                   | IP20                                        |
|                                  | Device in a modular enclosure | IP40 (IPXXD)                                |
| Endurance (O-C)                  | Electrical                    | 5000 cycles (O-C)                           |
|                                  | Mechanical                    | 20000 cycles                                |
| Operating temperature            |                               | -30°C to +70°C                              |
| Storage temperature              |                               | -40°C to +80°C                              |
| Tropicalisation (IEC 60068-1)    |                               | Treatment 2 (relative humidity 95% at 55°C) |

## Weight (g)

### Circuit breaker

| Type | C120H |
|------|-------|
| 1P   | 205   |
| 2P   | 410   |
| 3P   | 615   |
| 4P   | 820   |

## Dimensions (mm)





Country approval pictograms

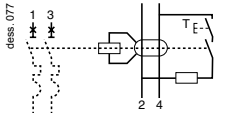
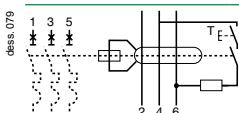
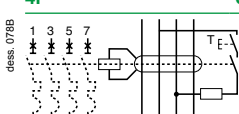
## EN 61009

When a Vigi C120 device is combined with a C120 circuit breaker, it provides the following functions:

- protection of persons against electric shock by direct contact (30 mA),
- protection of persons against electric shock by indirect contact (300 mA),
- protection of installations against fire hazards (300 mA).

## Catalogue numbers

### Vigi C120 add-on residual current devices

| Type                                                                                | AC  | Width in 9 mm modules                                                                                   |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Product                                                                             | Vigi C120                                                                              |                                                                                                         |
| Auxiliaries                                                                         | Without auxiliary                                                                      |                                                                                                         |
| 2P                                                                                  | Sensitivity                                                                            | 30 mA 300 mA 300 mA  |
|    | A9N18563                                                                               | A9N18564 - 7                                                                                            |
| 3P                                                                                  | Sensitivity                                                                            | 30 mA 300 mA                                                                                            |
|   | A9N18566                                                                               | A9N18567 - 10                                                                                           |
| 4P                                                                                  | Sensitivity                                                                            | 30 mA 300 mA                                                                                            |
|  | A9N18569                                                                               | A9N18570 A9N18548 10                                                                                    |
| Operating voltage (Ue)                                                              | 230...415 V                                                                            |                                                                                                         |
| Operating frequency                                                                 | 50/60 Hz                                                                               |                                                                                                         |
| Accessories                                                                         | See page 100                                                                           |                                                                                                         |

PB 107924-30



2P

PB 107925-30



3P

PB 107926-30



4P

■ Fault indication by the red strip on the reset toggle

■ Polarizing slot

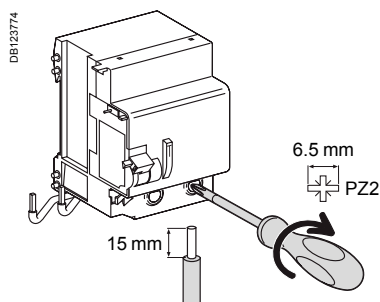
■ Test button

■ Screw shield allowing the connections to be checked and retightened

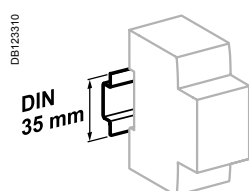
■ Terminals insulated to IP20

# Vigi C120 add-on residual current devices (types AC)

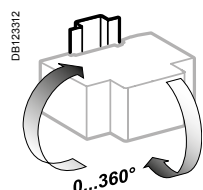
## Connection



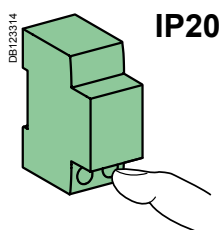
| Type      | Sensitivity | Tightening torque | Copper cables           |                          |
|-----------|-------------|-------------------|-------------------------|--------------------------|
|           |             |                   | Rigid                   | Flexible or with ferrule |
| Vigi C120 | 30...300 mA | 3.5 N.m           | 1 to 50 mm <sup>2</sup> | 1 to 35 mm <sup>2</sup>  |



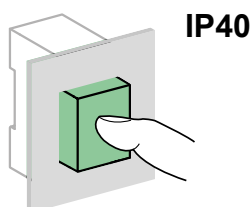
Clips onto 35 mm DIN rail.



Any installation position.



IP20



IP40

## Technical data

### Main characteristics

#### To IEC 60947-2

|                                                     |          |
|-----------------------------------------------------|----------|
| Insulation voltage (U <sub>i</sub> )                | 500 V AC |
| Degree of pollution                                 | 3        |
| Rated impulse withstand voltage (U <sub>imp</sub> ) | 6 kV     |

#### To EN 61009

|                                                      |                                                                                                               |       |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------|
| Impulse current withstand (8/20 μs) without tripping | Type AC (non-selective  ) | 250 Å |
|                                                      | Type AC (selective  )    | 3 kÅ  |

### Additional characteristics

|                       |                               |                             |
|-----------------------|-------------------------------|-----------------------------|
| Degree of protection  | Device only                   | IP20                        |
|                       | Device in a modular enclosure | IP40<br>Insulation class II |
| Operating temperature | Type AC                       | -5 °C to +60 °C             |
|                       | Types A and S/                | -25 °C to +60 °C            |
| Storage temperature   |                               | -40 °C to +85 °C            |

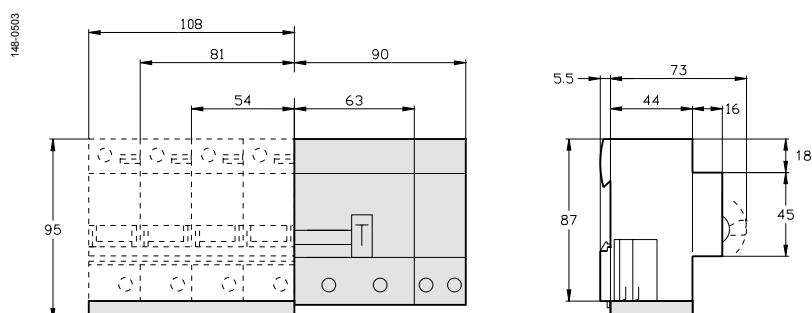
## Weight (g)

### Add-on residual current devices

| Type | Vigi C120 |
|------|-----------|
| 2P   | 325       |
| 3P   | 500       |
| 4P   | 580       |

## Dimensions (mm)

### C120 + Vigi C120





Country approval pictograms

### IEC 60947-2

The C60H-DC supplementary protectors are used in direct current circuits (Industrial control and automations, transport, renewable energy...). They combine the following functions of circuit protection against short-circuit and overload currents, control and isolation.

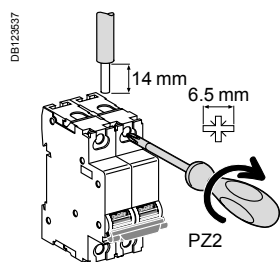


| Direct current (DC)                              |             |       |       |       |       |                                       |
|--------------------------------------------------|-------------|-------|-------|-------|-------|---------------------------------------|
| Breaking capacity (Icu) according to IEC 60947-2 |             |       |       |       |       | Rated service breaking capacity (Ics) |
| Type                                             | 110 V       | 220 V | 250 V | 440 V | 500 V |                                       |
| 1P                                               | 110 V       | 220 V | 250 V | 440 V | 500 V | 75 % Icu                              |
| Rating (In)                                      | 0.5 to 63 A | 20 kA | 10 kA | 6 kA  | -     |                                       |
| 2P (in series)                                   | 110 V       | 220 V | 250 V | 440 V | 500 V | 75 % Icu                              |
|                                                  | 0.5 to 63 A | -     | 20 kA | 20 kA | 10 kA |                                       |

### Catalogue numbers

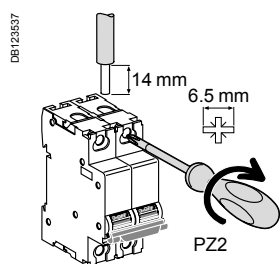
| C60H-DC                   |                                                                           |                                                   |
|---------------------------|---------------------------------------------------------------------------|---------------------------------------------------|
| Type                      | 1P                                                                        | 2P                                                |
|                           | <p>DB116598</p> <p>Supply from above or below, observing the polarity</p> | <p>Supply from above</p> <p>Supply from below</p> |
| Auxiliaries               | See page 41                                                               |                                                   |
| Rating (In)               | Curve C                                                                   | Curve C                                           |
| 0.5 A                     | A9N61500                                                                  | A9N61520                                          |
| 1 A                       | A9N61501                                                                  | A9N61521                                          |
| 2 A                       | A9N61502                                                                  | A9N61522                                          |
| 3 A                       | A9N61503                                                                  | A9N61523                                          |
| 4 A                       | A9N61504                                                                  | A9N61524                                          |
| 5 A                       | A9N61505                                                                  | A9N61525                                          |
| 6 A                       | A9N61506                                                                  | A9N61526                                          |
| 10 A                      | A9N61508                                                                  | A9N61528                                          |
| 13 A                      | A9N61509                                                                  | A9N61529                                          |
| 15 A                      | A9N61510                                                                  | A9N61530                                          |
| 16 A                      | A9N61511                                                                  | A9N61531                                          |
| 20 A                      | A9N61512                                                                  | A9N61532                                          |
| 25 A                      | A9N61513                                                                  | A9N61533                                          |
| 30 A                      | A9N61514                                                                  | A9N61534                                          |
| 32 A                      | A9N61515                                                                  | A9N61535                                          |
| 40 A                      | A9N61517                                                                  | A9N61537                                          |
| 50 A                      | A9N61518                                                                  | A9N61538                                          |
| 63 A                      | A9N61519                                                                  | A9N61539                                          |
| Number of modules of 9 mm | 2                                                                         | 4                                                 |
| Accessories               | See page 100                                                              |                                                   |

### Connection

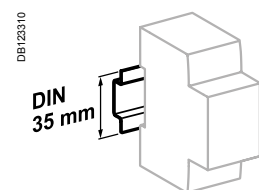


|        |                   | Without accessory                                                                             |                                                                                               | With accessories                                                                                  |                                                                                                 |                                                                                                 |                        |
|--------|-------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------|
| Rating | Tightening torque | Copper cables                                                                                 |                                                                                               | 50 mm <sup>2</sup> Al terminal                                                                    | Screw-on connection for ring terminal                                                           | Multi-cables terminal                                                                           |                        |
|        |                   | Rigid / Stranded                                                                              | Flexible or with ferrule                                                                      |                                                                                                   |                                                                                                 | Rigid cables                                                                                    | Flexible cables        |
|        |                   | DB122945<br> | DB122946<br> | DB122935<br> Al | DB118789<br> | DB118787<br> |                        |
| ≤ 25 A | 2.5 N.m           | 1 to 25 mm <sup>2</sup>                                                                       | 1 to 16 mm <sup>2</sup>                                                                       | -                                                                                                 | Ø 5 mm                                                                                          | -                                                                                               | -                      |
| > 25 A | 3.5 N.m           | 1 to 35 mm <sup>2</sup>                                                                       | 1 to 25 mm <sup>2</sup>                                                                       | 50 mm <sup>2</sup>                                                                                |                                                                                                 | 3 x 16 mm <sup>2</sup>                                                                          | 3 x 10 mm <sup>2</sup> |

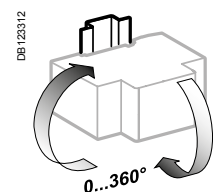
### Multi-cables connection



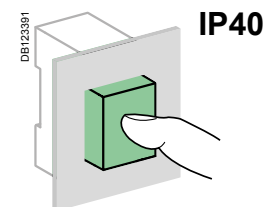
| Rating | Tightening torque | Without accessory                               |                          |                                  |                                                   |
|--------|-------------------|-------------------------------------------------|--------------------------|----------------------------------|---------------------------------------------------|
|        |                   | 2 Copper cables                                 |                          | 3 Multi-cables / Different wires |                                                   |
|        |                   | Rigid / Stranded                                | Flexible or with ferrule | Flexible / Stranded              | Flexible / Stranded / Rigid                       |
|        |                   | DB122945                                        | DB122946                 | DB118787                         |                                                   |
| ≤ 25 A | 2.5 N.m           | 2 x 1 mm <sup>2</sup> to 2 x 10 mm <sup>2</sup> |                          | 3 x 1 mm <sup>2</sup>            | 2 x 2.5 mm <sup>2</sup> + 1 x 1.5 mm <sup>2</sup> |
| > 25 A | 3.5 N.m           | 2 x 1 mm <sup>2</sup> to 2 x 16 mm <sup>2</sup> |                          | 3 x 4 mm <sup>2</sup>            | 2 x 10 mm <sup>2</sup> + 1 x 6 mm <sup>2</sup>    |



Clip on DIN rail 35 mm.



Indifferent position of installation.



IP40



### Technical data

- Tripping curves: C curve - Overcurrent protection for any type of application.
- Positive break indication - the green strip indicates that all the poles are open and allows work to be carried out on the downstream circuit in complete safety.
- Suitable for isolation as defined in IEC 60947-2.
- Increase in the service life of the product: thanks to fast closure independent of the speed of action on the handle.
- Current limitation in the event of a fault: fast opening of the contacts prevents the loads from being destroyed in the event of a short-circuit.

#### Main characteristics

##### According to IEC 60947-2

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Insulation voltage (Ui)                            | 500 V DC                                  |
| Rated voltage (Un)                                 | 1P<br>250 V DC                            |
|                                                    | 2P<br>500 V DC                            |
| Operating voltage (Ue)                             | 1P<br>24...250 V DC                       |
|                                                    | 2P<br>24...500 V DC                       |
| Pollution degree                                   | 3                                         |
| Rated impulse withstand voltage (Uimp) under frame | 6 kV                                      |
| Magnetic tripping (Ii)                             | 8.5 In (± 20 %) (compatible with curve C) |

#### Additional characteristics

|                                  |                             |                                                                              |
|----------------------------------|-----------------------------|------------------------------------------------------------------------------|
| Degree of protection (IEC 60529) | Device in modular enclosure | IP40                                                                         |
| Utilization category             |                             | A (no delay in accordance with IEC 60947-2 standards)                        |
| Endurance (O-C)                  | Electrical                  | 3,000 cycles (where L/R=2 ms)<br>6,000 cycles where the circuit is resistive |
|                                  | Mechanical                  | 20,000 cycles                                                                |
| Tropicalization (IEC 60068-2)    |                             | Treatment 2 (relative humidity 95 % at 55°C)                                 |
| Operating temperature            |                             | -25°C to 70°C                                                                |
| Storage temperature              |                             | -40°C to 85°C                                                                |



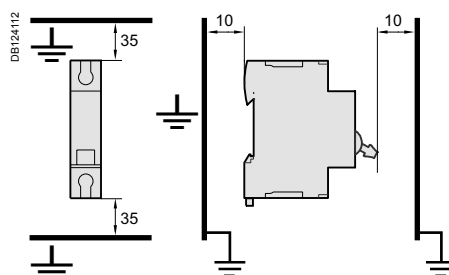
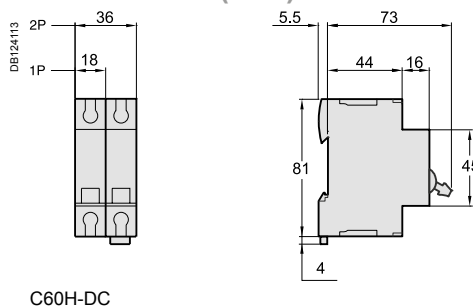
Failure to match polarity during connection may lead to a fire hazard and/or serious injury.

- The connection polarity must be observed (marked on the front panel).
- Use only with direct current.

### Weight (g)

| Circuit-breaker |         |
|-----------------|---------|
| Type            | C60H-DC |
| 1P              | 128 g   |
| 2P              | 256 g   |

### Dimensions (mm)



Details of minimum distance between circuit-breaker and earthed metal parts for circuit-breaker intended for use without enclosure.

- The electrical auxiliaries provide the remote tripping or position (open/closed/tripped) indication functions of these devices in the event of a fault.
- They clip on (no tool required) to the left-hand side of the associated device.
- The OF+SD/OF auxiliary is a two-in-one product: a mechanical selector switch is used to select one of two contacts: OF+SD or OF+OF.

## Tripping auxiliaries

### IEC/EN 60947-1

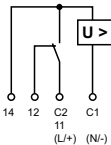
- MN: undervoltage release
- MX: shunt release
- MX+OF: shunt release with open/closed contact.

## Indication auxiliaries

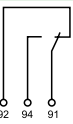
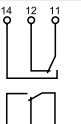
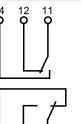
### IEC/EN 60947-5-1

- OF: open/closed contact
- SD: fault indicating contact
- OF+SD/OF: choice of open/closed contact and OF or SD contact via the selector switch.

# Electrical auxiliaries for C120, C60H-DC, DPN N Vigī (cont.)

| Tripping                              |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    |                                   |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Auxiliaries                           | MN                                                                                                                                                                                                                       |                                                                                                                     | MX                                                                                                                                 | MX+OF                             |
| Type                                  | Undervoltage release                                                                                                                                                                                                     |                                                                                                                     | Shunt release                                                                                                                      |                                   |
|                                       | Instantaneous                                                                                                                                                                                                            |                                                                                                                     |                                                                                                                                    | With Open/Close auxiliary contact |
|                                       | <div>PB 07151-30</div> <div></div>                                                                                                      | <div>PB 07150-30</div> <div></div> | <div>PB 07148-30</div> <div></div>              |                                   |
| Function                              | <div>■ Causes the device with which it is associated to trip when its input voltage decreases (between 70 % and 35 % of U<sub>n</sub>). Prevents the device from closing until its input voltage has been restored</div> |                                                                                                                     | <div>■ Trips the associated device when it is powered on</div>                                                                     |                                   |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     | <div>■ Includes an open/close contact (OF) to indicate the "open" or "closed" position of the breaker</div>                        |                                   |
| Wiring diagrams                       | <div>DB 118804</div> <div></div>                                                                                                       |                                                                                                                     | <div>DB 406847</div> <div></div>                 |                                   |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     | <div>DB 118806</div> <div></div>               |                                   |
| Utilization                           | <div>■ Emergency stop via a normally-closed pushbutton</div> <div>■ Ensures the safety of the power supply circuits of several machines by preventing accidental startups</div>                                          |                                                                                                                     | <div>■ Emergency stop via a normally-open pushbutton.</div>                                                                        |                                   |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     | <div>■ Emergency stop via a normally-open pushbutton</div> <div>■ Remote indication of the position of the associated device</div> |                                   |
| Catalogue numbers                     | A9N26960                                                                                                                                                                                                                 |                                                                                                                     | A9N26476                                                                                                                           | A9N26946                          |
| Technical specifications              |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    |                                   |
| Rated voltage (U <sub>e</sub> )       | V AC                                                                                                                                                                                                                     | 220...240                                                                                                           | 100...415                                                                                                                          | 100...415                         |
|                                       | V DC                                                                                                                                                                                                                     | —                                                                                                                   | 110...130                                                                                                                          | 110...130                         |
| Operating frequency                   | Hz                                                                                                                                                                                                                       | 50/60                                                                                                               | 50/60                                                                                                                              | 50/60                             |
| Mechanical state indicator light, red | On front face                                                                                                                                                                                                            |                                                                                                                     | On front face                                                                                                                      | On front face                     |
| Width in 9 mm modules                 | 2                                                                                                                                                                                                                        |                                                                                                                     | 2                                                                                                                                  | 2                                 |
| Operating current                     | —                                                                                                                                                                                                                        |                                                                                                                     | —                                                                                                                                  | 10 mA mini, 6 A maxi              |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    | ≤ 24 V DC                         |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    | 48 V DC                           |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    | ≤ 130 V DC                        |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    | ≤ 240 V AC                        |
|                                       |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    | 415 V AC                          |
| Number of contacts                    | —                                                                                                                                                                                                                        |                                                                                                                     | —                                                                                                                                  | 1 NO/NC                           |
| Operating temperature                 | °C                                                                                                                                                                                                                       | -25...+50                                                                                                           | -25...+50                                                                                                                          | -25...+50                         |
| Storage temperature                   | °C                                                                                                                                                                                                                       | -40...+85                                                                                                           | -40...+85                                                                                                                          | -40...+85                         |
| Standards                             |                                                                                                                                                                                                                          |                                                                                                                     |                                                                                                                                    |                                   |
| IEC/EN 60947-1                        | ■                                                                                                                                                                                                                        |                                                                                                                     | ■                                                                                                                                  | ■                                 |
| EN 60947-2                            | ■                                                                                                                                                                                                                        |                                                                                                                     | —                                                                                                                                  | —                                 |

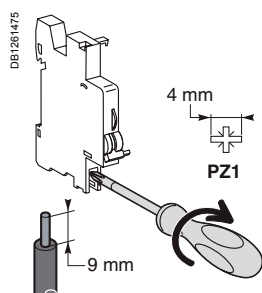
# Electrical auxiliaries for C120, C60H-DC, DPN N Vigī (cont.)

| Indication        |                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auxiliaries       | OF                                                                                                                                                                      | SD                                                                                                                                                                                                                                                                                                                                                                 | OF+SD/OF                                                                                                                                                                                                                                                                                                                                                |
| Type              | Open/closed auxiliary contact                                                                                                                                           | Fault indicating contact                                                                                                                                                                                                                                                                                                                                           | Double open/closed or fault indicating contact                                                                                                                                                                                                                                                                                                          |
|                   | <br>  | <br>                                                                                                                                                                                             | <br>                                                                                                                                                                              |
| Function          | <ul style="list-style-type: none"> <li>Changeover contact indicating the "open" or "closed" position of the associated device</li> </ul>                                | <ul style="list-style-type: none"> <li>Changeover contact indicating the position of the associated device in the event of: <ul style="list-style-type: none"> <li>electrical fault</li> <li>action on the tripping auxiliary</li> </ul> </li> </ul> <p><b>⚠ Not compatible with a ID residual current circuit breaker, use an OF+SD/OF in the SD position</b></p> | <ul style="list-style-type: none"> <li>The OF+SD/OF auxiliary is a two-in-one product: choice of OF + SD or OF + OF contact via the selector switch</li> </ul>                                                                                                                                                                                          |
| Wiring diagrams   | <br> | <br>                                                                                                                                                                                            | <br> <br> |
| Utilization       | <ul style="list-style-type: none"> <li>Remote indication of the position of the associated device</li> </ul>                                                            | <ul style="list-style-type: none"> <li>Remote fault tripping indication of the associated device</li> </ul>                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Remote position and/or fault tripping indication of the associated device</li> </ul>                                                                                                                                                                                                                             |
| Catalogue numbers | <b>A9N26924</b>                                                                                                                                                         | <b>A9N26927</b>                                                                                                                                                                                                                                                                                                                                                    | <b>A9N26929</b>                                                                                                                                                                                                                                                                                                                                         |

| Technical specifications   |                      |               |                   |               |
|----------------------------|----------------------|---------------|-------------------|---------------|
| Rated voltage (Ue)         | V AC                 | 24...415      | 24...415          | 24...415      |
|                            | V DC                 | 24...130      | 24...130          | 24...130      |
| Operating frequency        | Hz                   | 50/60         | 50/60             | 50/60         |
| Mechanical state indicator | —                    | On front face | On front face     | On front face |
| Test function              | On front face        | On front face | On front face     | On front face |
| Width in 9 mm modules      | 1                    | 1             | 1                 | 1             |
| Operating current          | 10 mA mini, 6 A maxi |               |                   |               |
|                            | 24 V DC              | 6 A           |                   |               |
|                            | 48 V DC              | 2 A           |                   |               |
|                            | 60 V DC              | 1.5 A         |                   |               |
|                            | 130 V DC             | 1 A           |                   |               |
|                            | 24...240 V AC        | 6 A           |                   |               |
|                            | 415 V AC             | 3 A           |                   |               |
| Number of contacts         | 1 NO/NC              | 1 NO/NC       | 1 NO/NC + 1 NO/NC |               |
| Operating temperature      | °C                   | -25...+50     | -25...+50         | -25...+50     |
| Storage temperature        | °C                   | -40...+85     | -40...+85         | -40...+85     |
| Standards                  |                      |               |                   |               |
| IEC/EN 60947-5-1           | ■                    | ■             | ■                 | ■             |
| EN 62019-2 <sup>(1)</sup>  | ■                    | ■             | ■                 | ■             |

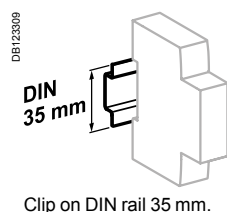
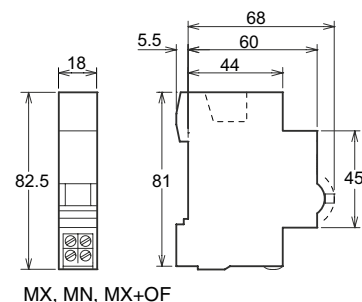
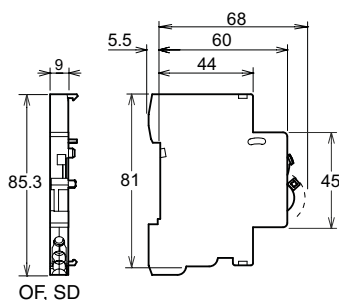
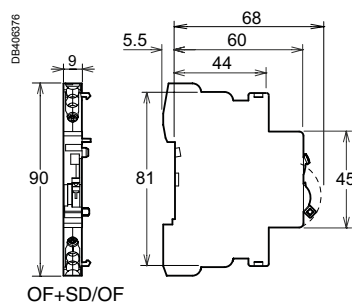
(1) For C120.

## Connection

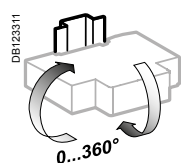


| Type                                | Tightening torque | Copper cables              |                          |
|-------------------------------------|-------------------|----------------------------|--------------------------|
|                                     |                   | Rigid                      | Flexible or with ferrule |
| Indication and tripping auxiliaries | 1 N.m             | 0.5 to 2.5 mm <sup>2</sup> | 2 x 1.5 mm <sup>2</sup>  |

## Dimensions



Clip on DIN rail 35 mm.



Indifferent position of installation.

## Weight (g)

| Electrical auxiliaries |    |
|------------------------|----|
| Type                   |    |
| MN                     | 66 |
| MX                     | 60 |
| MX+OF                  | 65 |
| OF                     | 30 |
| SD                     | 30 |
| OF+SD/OF               | 38 |



The Type 1 range of surge arresters meets the normative withstand capability of current wave type 10/350  $\mu$ s (8/20  $\mu$ s for Type 2 surge arresters).

It is suitable for use with TN-S and TN-C earthing connection systems (neutral point connection).

iPRF1 12.5r and PRD1 25r surge arresters are fitted with a remote transfer contact to send "end-of-life indication" information.

PRD1 25r surge arresters are fitted with easy-to-replace withdrawable cartridges.

### iPRF1 12.5r/PRD1 25r

The Type 1 surge arrester is recommended for electrical installations in the service sector and industrial buildings protected by a lightning conductor or by a meshed cage.

It protects electrical installations against direct lightning strikes.

It is used to conduct the direct lightning current, propagating from the earth conductor to the network conductors.

It must be installed with an upstream disconnection device, such as a fuse or circuit-breaker, whose breaking capacity must be at least equal to the maximum prospective short-circuit current at the installation point.

iPRF1 12.5r and PRD1 25r surge arresters also provide Type 2 protection and protect the electrical installation by finely clipping the lightning wave overvoltages.

PB104275-35-b

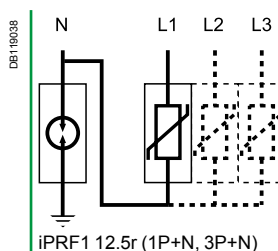


iPRF1 12.5r (3P+N)

PB104260-35

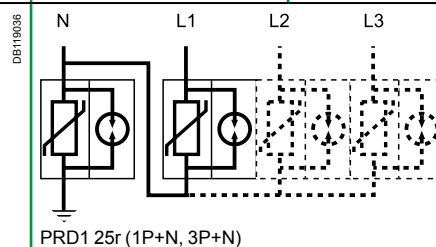


PRD1 25r (3P+N)



iPRF1 12.5r (1P+N, 3P+N)

| Type                     | Product solution |          |
|--------------------------|------------------|----------|
| Fixed surge arrester     | 1P+N             | 3P+N     |
| iPRF1 12.5r<br>T1, T2    | A9L16632         | A9L16634 |
| Cartridge surge arrester | 1P+N             | 3P+N     |
| PRD1 25r<br>T1 + T2      | 16330            | 16332    |



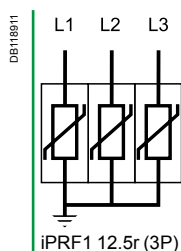
PRD1 25r (1P+N, 3P+N)

PB 104268-30

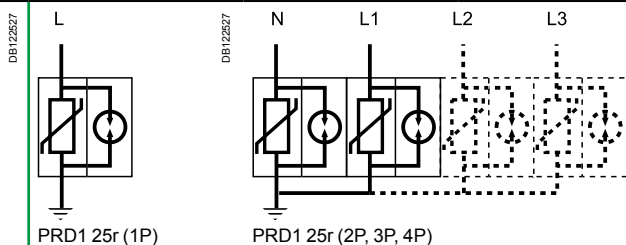


C1 Neutral-350

| Surge arresters | Spare cartridge  |                  |              |
|-----------------|------------------|------------------|--------------|
|                 | Phase            |                  | Neutral      |
|                 | Type 1           | Type 2           |              |
| <b>PRD1 25r</b> |                  |                  |              |
| PRD1 25r 1P     | <b>16315</b>     | <b>16316</b>     | -            |
| PRD1 25r 1P+N   | <b>16315</b>     | <b>16316</b>     | <b>16317</b> |
| PRD1 25r 3P     | 3 x <b>16315</b> | 3 x <b>16316</b> | -            |
| PRD1 25r 3P+N   | 3 x <b>16315</b> | 3 x <b>16316</b> | <b>16317</b> |



|                 |  |  | Earthing system |
|-----------------|--|--|-----------------|
| <b>3P</b>       |  |  |                 |
|                 |  |  | TN-S            |
| <b>A9L16633</b> |  |  | TN-C            |



|              |                  |              |                  |      |
|--------------|------------------|--------------|------------------|------|
| <b>1P</b>    | <b>2P</b>        | <b>3P</b>    | <b>4P</b>        |      |
|              |                  |              |                  | TN-S |
| <b>16329</b> | 2 x <b>16329</b> | <b>16331</b> | 4 x <b>16329</b> | TN-C |

| Type                               | Nb. of poles | Width               | I <sub>imp</sub> (kA)<br>(10/350)<br>Impulse current | I <sub>max</sub> (kA)<br>(8/20)<br>Maximum discharge current | I <sub>n</sub> - kA<br>Nominal discharge current | Up - kV<br>Voltage protection level | Un - (V)<br>Rated voltage network | Uc - V<br>Maximum continuous operating voltage | Cat. no.        |
|------------------------------------|--------------|---------------------|------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-----------------------------------|------------------------------------------------|-----------------|
| <b>Fixed surge arrester</b>        |              | <b>9 mm modules</b> |                                                      |                                                              |                                                  |                                     |                                   | (L-N)/(N-PE)                                   |                 |
| <b>iPRF1 12.5r</b> Type 1 + 2      |              |                     |                                                      |                                                              |                                                  |                                     |                                   |                                                |                 |
|                                    | 1P+N         | 4                   | 12.5 (L-N)/50 (N-PE)                                 | 50                                                           | 25                                               | ≤ 1.5                               | 230                               | 350/255                                        | <b>A9L16632</b> |
|                                    | 3P           | 8                   | 12.5                                                 | 50                                                           | 25                                               | ≤ 1.5                               | 230/400                           | 350                                            | <b>A9L16633</b> |
|                                    | 3P+N         | 8                   | 12.5 (L-N)/50 (N-PE)                                 | 50                                                           | 25                                               | ≤ 1.5                               | 230/400                           | 350/255                                        | <b>A9L16634</b> |
| <b>Withdrawable surge arrester</b> |              |                     |                                                      |                                                              |                                                  |                                     |                                   |                                                |                 |
| <b>PRD1 25r</b> Type 1 + 2         |              |                     |                                                      |                                                              |                                                  |                                     |                                   |                                                |                 |
|                                    | 1P           | 4                   | 25                                                   | 40                                                           | 25                                               | ≤ 1.5                               | 230                               | 350                                            | <b>16329</b>    |
|                                    | 1P+N         | 8                   | 25 (L-N)/100 (N-PE)                                  | 40                                                           | 25                                               | ≤ 1.5                               | 230                               | 350/350                                        | <b>16330</b>    |
|                                    | 3P           | 12                  | 25                                                   | 40                                                           | 25                                               | ≤ 1.5                               | 230/400                           | 350                                            | <b>16331</b>    |
|                                    | 3P+N         | 16                  | 25 (L-N)/100 (N-PE)                                  | 40                                                           | 25                                               | ≤ 1.5                               | 230/400                           | 350/350                                        | <b>16332</b>    |
| <b>Spare cartridge</b>             |              |                     |                                                      |                                                              |                                                  |                                     |                                   |                                                |                 |
| C1 25-350                          | -            | 23 mm               | -                                                    | -                                                            | 25                                               | ≤ 1.5                               | -                                 | 350                                            | <b>16315</b>    |
| C2 40-350                          | -            | 12 mm               | -                                                    | -                                                            | 20                                               | ≤ 1.5                               | -                                 | 350                                            | <b>16316</b>    |
| C1 Neutral-350                     | -            | 4                   | -                                                    | -                                                            | -                                                | -                                   | -                                 | 350                                            | <b>16317</b>    |

## Technical data

|                                                                  |                        | <b>iPRF1 12.5r</b>                                              | <b>PRD1 25r</b>                                                 |
|------------------------------------------------------------------|------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Operating frequency                                              |                        | 50 Hz                                                           | 50 Hz                                                           |
| Degree of protection                                             | Front panel            | IP40                                                            | IP40                                                            |
|                                                                  | Terminals              | IP20                                                            | IP20                                                            |
|                                                                  | Impacts                | IK05                                                            | IK05                                                            |
| Response time                                                    |                        | ≤ 25 ns                                                         | ≤ 25 ns                                                         |
| Short circuit withstand (I <sub>sc</sub> )                       |                        | 50 kA                                                           | 25 kA                                                           |
| Temporary overvoltage withstand (U <sub>T</sub> )                | U <sub>T</sub> (L-N)   | 335 V AC/5 s                                                    | 415 V AC/5 s                                                    |
|                                                                  | U <sub>T</sub> (N-PE)  | 1200 V AC/200 ms                                                | 1200 V AC/200 ms                                                |
| Temporary overvoltage <b>Safe failure mode</b> (U <sub>T</sub> ) | U <sub>T</sub> (L-N)   | 440 V AC/120 min                                                | 440 V AC/120 min                                                |
| Ground residual current (I <sub>PE</sub> )                       | I <sub>PE</sub> (N-PE) | 0.004 mA                                                        | ≤ 0.01 mA for 1P+N, 3P+N                                        |
| Follow current interrupting rating (I <sub>fi</sub> )            | I <sub>fi</sub> (L-N)  | -                                                               | 25 kA/264 V AC<br>3 kA/350 V AC                                 |
|                                                                  | I <sub>fi</sub> (N-PE) | 100 A                                                           | 100 A                                                           |
| End-of-life indication                                           |                        | Green: correct operation<br>Red: at end of life                 | White: correct operation<br>Red: at end of life                 |
|                                                                  | Remote notification    | 1.5 A/250 V AC                                                  | 1 A/250 V AC<br>≤ 1 A/30 V DC                                   |
| By tunnel terminal                                               | Rigid cable            | 10...35 mm <sup>2</sup>                                         | 10...35 mm <sup>2</sup>                                         |
|                                                                  | Flexible cable         | 10...25 mm <sup>2</sup>                                         | 10...25 mm <sup>2</sup>                                         |
| Operating temperature                                            |                        | -25°C to +60°C                                                  | -40°C to +80°C                                                  |
| Humidity range                                                   |                        | 5 % to 95 %                                                     | 5 % to 95 %                                                     |
| Standards                                                        |                        | IEC 61643-11: 2011 [T1], [T2] EN 61643-11: 2012 Type 1 + Type 2 | IEC 61643-11: 2011 [T1], [T2] EN 61643-11: 2012 Type 1 + Type 2 |
| Approvals                                                        |                        | CE, EAC                                                         | CE, KEMA-KEUR                                                   |

## Choice of disconnector / surge arrester

| Type               | I <sub>imp</sub> :<br>impulse current | I <sub>sc</sub> : prospective short-circuit current at the installation point |                                               |                         |                         |                         |
|--------------------|---------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|-------------------------|-------------------------|
|                    |                                       | 10 kA                                                                         | 15 kA                                         | 25 kA                   | 36 kA                   | 50 kA                   |
| <b>iPRF1 12.5r</b> | 12.5 kA                               | C120N 80 A curve C or Compact NSX100B 100 A *                                 | C120H 80 A curve C or Compact NSX100B 100 A * | Compact NSX100B 100 A * | Compact NSX100F 100 A * | Compact NSX100N 100 A * |
| <b>PRD1 25r</b>    | 25 kA                                 | Compact NSX100B 100 A                                                         |                                               |                         | -                       |                         |

(\*) For lightning impulse current withstand

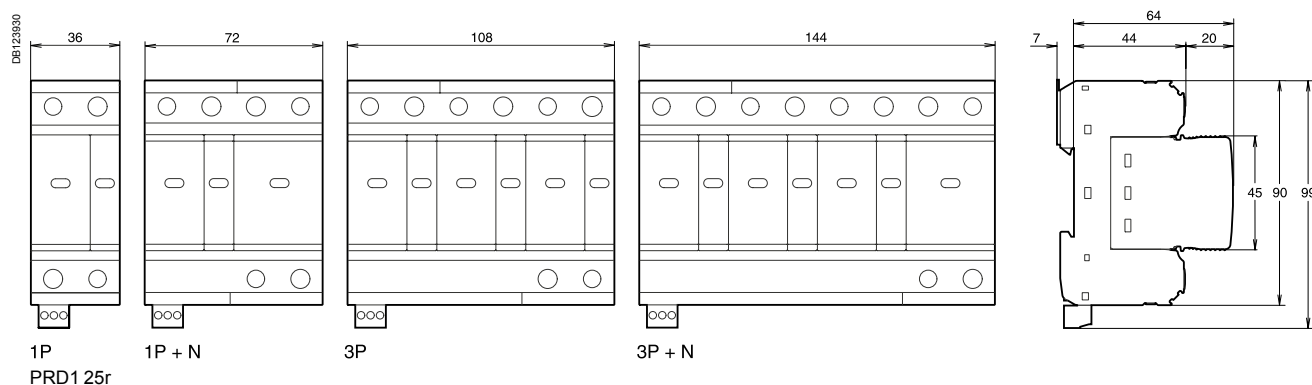
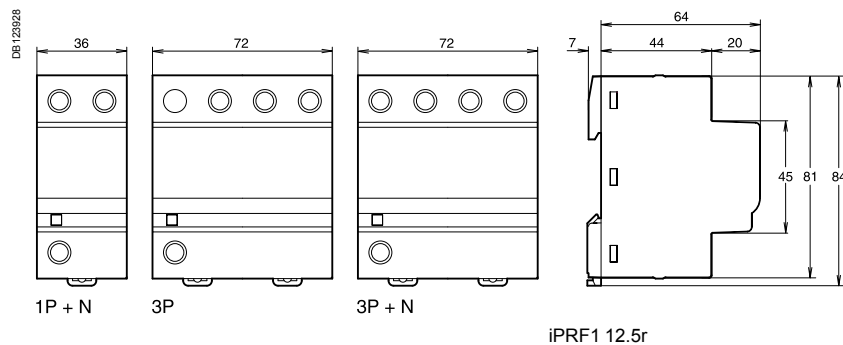
PRD1 25r Reversible

## PRD1 25r Reversible

■ The surge arrester base can be turned over to allow the phase/neutral/earth cables to enter through either the top or the bottom



## Dimensions (mm)



## Weight (g)

| Surge arresters |             |          |
|-----------------|-------------|----------|
| Type            | iPRF1 12,5r | PRD1 25r |
| 1P              | -           | 334      |
| 1P+N            | 290         | 725      |
| 3P              | 590         | 1010     |
| 3P+N            | 590         | 1338     |
| Cartridge       | Neutral     | 229      |
|                 | Phase       | -        |

# iPRD surge arresters

## Type 2 or 3 LV withdrawable surge arresters



Country approval pictograms

iPRD withdrawable surge arresters allow quick replacement of damaged cartridges.

Type 2 surge arresters are tested with a 8/20  $\mu$ s current wave.

Type 3 surge arresters are tested with a 1.2/50  $\mu$ s and 8/20  $\mu$ s combined wave.

Each surge arrester in the range has a specific application:

■ **incoming protection (type 2):**

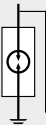
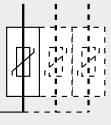
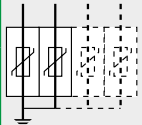
- the iPRD65r is recommended for a very high risk level (strongly exposed site)
- the iPRD40(r) is recommended for a high risk level

■ **secondary protection (type 2 or 3):**

- the iPRD8(r) ensures secondary protection of loads to be protected and is placed in cascade with the incoming surge arresters. This surge arrester is required when the loads to be protected are at a distance of more than 10 m from the incoming surge arrester.

The iPRD surge arresters with "r" indication have remote transfer of the information: "cartridge to be replaced".

### Catalogue number iPRD surge arresters

| Rated discharge current (Imax)                                                                                                                        | Nominal discharge current (In) | Type of protection |           | Network                                                                             |                                                                                      |                                                                                      |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|
|                                                                                                                                                       |                                |                    |           | DB122943                                                                            |                                                                                      | DB122943                                                                             |          |
|                                                                                                                                                       |                                | Incoming           | Secondary |  |  |  |          |
|                                                                                                                                                       |                                |                    |           | 1P+N                                                                                | 3P+N                                                                                 | 1P                                                                                   | 3P       |
| iPRD65                                                                                                                                                |                                |                    |           |                                                                                     |                                                                                      |                                                                                      |          |
| 65 kA<br>Very high risk level (strongly exposed site)                                                                                                 | 20 kA                          | iPRD65             |           | A9L65501                                                                            |                                                                                      | A9L65101                                                                             |          |
|                                                                                                                                                       |                                |                    |           |                                                                                     |                                                                                      |                                                                                      | A9L65301 |
|                                                                                                                                                       |                                |                    |           |                                                                                     | A9L65601                                                                             |                                                                                      |          |
| iPRD40                                                                                                                                                |                                |                    |           |                                                                                     |                                                                                      |                                                                                      |          |
| 40 kA<br>High risk level                                                                                                                              | 15 kA                          | iPRD40             |           | A9L40500                                                                            |                                                                                      | A9L40101                                                                             |          |
|                                                                                                                                                       |                                |                    |           |                                                                                     |                                                                                      |                                                                                      | A9L40301 |
|                                                                                                                                                       |                                |                    |           |                                                                                     | A9L40601                                                                             |                                                                                      |          |
| iPRD8                                                                                                                                                 |                                |                    |           |                                                                                     |                                                                                      |                                                                                      |          |
| 8 kA<br>Secondary protection:<br>placed near the loads to be protected when they are at a distance of more than 10 m from the incoming surge arrester | 2.5 kA                         |                    | iPRD8     | A9L08501                                                                            |                                                                                      | A9L08100                                                                             |          |
|                                                                                                                                                       |                                |                    |           |                                                                                     |                                                                                      |                                                                                      | A9L08300 |
|                                                                                                                                                       |                                |                    |           |                                                                                     | A9L08601                                                                             |                                                                                      |          |



2P



3P+N

# iPRD surge arresters

## Type 2 or 3 LV withdrawable surge arresters (cont.)



Cartridge

| Spare cartridges iPRD |                           |          |
|-----------------------|---------------------------|----------|
| Type                  | Spare cartridges for      | Cat. no  |
| iPRD 65-350           | iPRD65r                   | A9L65102 |
| iPRD 40-350           | iPRD40, iPRD40r           | A9L40102 |
| iPRD 8-350            | iPRD8, iPRD8r             | A9L08102 |
| iPRD Neutral          | All products (1P+N, 3P+N) | A9L00002 |

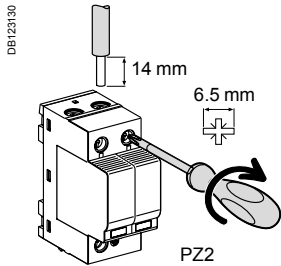
|                               | Earthing system | Transfer | Surge arrester name | Width in mod. of 9 mm | Up - (kV)<br>Voltage protection level |       |       | Un - (V)<br>Rated voltage network | Uc - (V)<br>Maximum continuous operating voltage |     |     |
|-------------------------------|-----------------|----------|---------------------|-----------------------|---------------------------------------|-------|-------|-----------------------------------|--------------------------------------------------|-----|-----|
|                               |                 |          |                     |                       | CM*                                   |       | DM*   |                                   |                                                  | CM* |     |
|                               |                 |          |                     |                       | L/±                                   | N/±   | L/N   |                                   | L/±                                              | N/± | L/N |
| iPRD65                        |                 |          |                     |                       |                                       |       |       |                                   |                                                  |     |     |
| A9L65101                      | TN              | ■        | iPRD65r 1P          | 2                     | ≤ 1.5                                 | -     | -     | 230                               | 350                                              | -   | -   |
| A9L65501                      | TN-S            | ■        | iPRD65r 1P+N        | 4                     | -                                     | ≤ 1.4 | ≤ 1.5 |                                   | -                                                | 260 | 350 |
| A9L65301                      | TN-C            | ■        | iPRD65r 3P          | 6                     | ≤ 1.5                                 | -     | -     | 230/400                           | 350                                              | -   | -   |
| A9L65601                      | TN-S            | ■        | iPRD65r 3P+N        | 8                     | -                                     | ≤ 1.4 | ≤ 1.5 |                                   | -                                                | 260 | 350 |
| iPRD40                        |                 |          |                     |                       |                                       |       |       |                                   |                                                  |     |     |
| A9L40101                      | TN              | ■        | iPRD40r 1P          | 2                     | ≤ 1.6                                 | -     | -     | 230                               | 350                                              | -   | -   |
| A9L40500                      | TN-S            |          | iPRD40 1P+N         |                       | -                                     | ≤ 1.4 | ≤ 1.6 |                                   | -                                                | 260 | 350 |
| A9L40301                      | TN-C            | ■        | iPRD40r 3P          | 6                     | ≤ 1.6                                 | -     | -     | 230/400                           | 350                                              | -   | -   |
| A9L40601                      | TN-S            | ■        | iPRD40r 3P+N        | 8                     | -                                     | ≤ 1.4 | ≤ 1.6 |                                   | -                                                | 260 | 350 |
| iPRD8 (1) Type 2 / Type 3 (1) |                 |          |                     |                       |                                       |       |       |                                   |                                                  |     |     |
| A9L08100                      | TN              |          | iPRD8 1P            | 2                     | ≤ 1.2                                 | -     | -     | 230                               | 350                                              | -   | -   |
| A9L08501                      | TN-S            | ■        | iPRD8r 1P+N         | 4                     | -                                     | ≤ 1.4 | ≤ 1.2 |                                   | -                                                | 260 | 350 |
| A9L08300                      | TN-C            |          | iPRD8 3P            | 6                     | ≤ 1.2                                 | -     | -     | 230/400                           | 350                                              | -   | -   |
| A9L08601                      | TN-S            | ■        | iPRD8r 3P+N         | 8                     | -                                     | ≤ 1.4 | ≤ 1.2 |                                   | -                                                | 260 | 350 |

\* **CM**: common mode (phase to earth and neutral to earth). \* **DM**: differential mode (phase to neutral). (1) **Uoc**: combined waveform voltage: 10 kV.

# iPRD surge arresters

## Type 2 or 3 LV withdrawable surge arresters

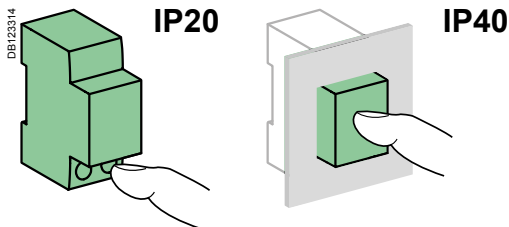
### Connection iPRD surge arresters



| Type | Tightening torque | Copper cables             |                          |
|------|-------------------|---------------------------|--------------------------|
|      |                   | Rigid                     | Flexible or with ferrule |
| iPRD | 3.5 N.m           | 2.5 to 25 mm <sup>2</sup> | 4 to 16 mm <sup>2</sup>  |

### Technical data iPRD surge arresters

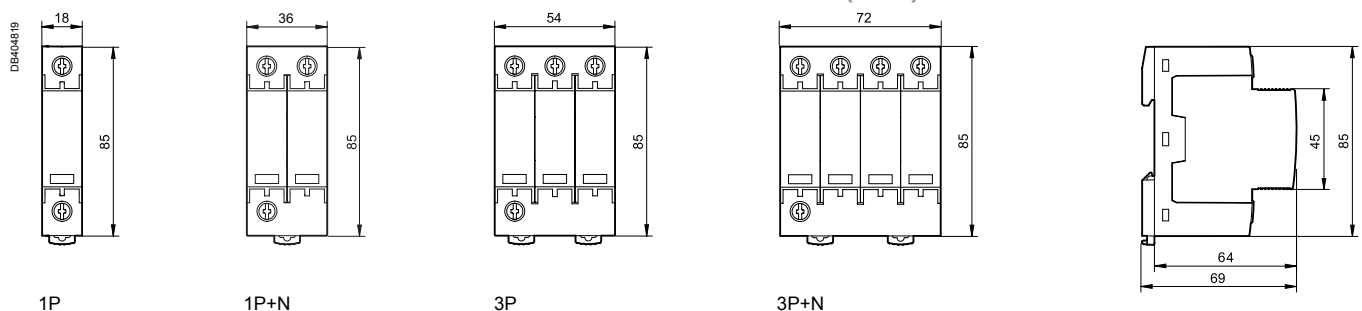
| Main characteristics                                                  |                             | iPRD                                                                          | iPRD IT                    |
|-----------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------|----------------------------|
| Operating frequency                                                   |                             | 50/60 Hz                                                                      |                            |
| Operating voltage (U <sub>e</sub> )                                   |                             | 230/400 V AC ±10 %                                                            |                            |
| Permanent operating current (I <sub>c</sub> )                         |                             | < 1 mA                                                                        |                            |
| Response time                                                         |                             | < 25 ns                                                                       |                            |
| Short circuit current rating (I <sub>sc</sub> )                       |                             | 50 kA (50 Hz)                                                                 | -                          |
| Short circuit current rating (I <sub>sc</sub> ), case of double fault |                             | -                                                                             | 5 kA (50 Hz)               |
| Temporary overvoltage withstand (U <sub>T</sub> )                     | U <sub>T</sub> (L-N)        | 337 V AC / 5 s                                                                | 337 V AC / 5 s             |
|                                                                       | U <sub>T</sub> (L-PE)       | 442 V AC / 120 min                                                            | -                          |
| Temporary overvoltage                                                 | U <sub>T</sub> (N-PE)       | 1200 V AC / 200 ms                                                            | 1455 V AC / 200 ms         |
| Safe failure mode (U <sub>T</sub> )                                   | U <sub>T</sub> (L-PE)       | 1455 V AC / 200 ms                                                            | 1455 V AC / 200 ms         |
| Ground residual current (I <sub>PE</sub> )                            | I <sub>PE</sub> (L-PE)      | 600 µA for 1P, 3P                                                             |                            |
|                                                                       | I <sub>PE</sub> (N-PE)      | 3 µA for 1P+N, 3P+N                                                           | -                          |
| Satisfactory operation indication:                                    |                             | White                                                                         | In operation               |
| by mechanical indicator                                               |                             | Red                                                                           | Cartridge must be replaced |
| Remote indication of satisfactory operation                           |                             | By contact NO, NC 250 V / 0.25 A                                              |                            |
| Additional characteristics                                            |                             |                                                                               |                            |
| Degree of protection (IEC 60529)                                      | Device only                 | IP20 (built-in)                                                               |                            |
|                                                                       | Device in modular enclosure | IP40                                                                          |                            |
| Operating temperature                                                 |                             | -25°C to +60°C                                                                |                            |
| Storage temperature                                                   |                             | -40°C to +85°C                                                                |                            |
| Humidity range                                                        |                             | 5 % to 95 %                                                                   |                            |
| Type of connection terminals                                          |                             | Tunnel terminals, 2.5 to 35 mm²                                               |                            |
| Standards                                                             |                             | IEC 61643-11: 2011 <b>T2</b> , <b>T3</b> and EN 61643-11: 2012 Type 2, Type 3 |                            |



### Surge arrester/circuit breaker association

| Surge arrester | Associated circuit breaker |                         |                                      |
|----------------|----------------------------|-------------------------|--------------------------------------|
|                | iPRD                       |                         | iPRD IT                              |
|                | I <sub>sc</sub> ≤ 25 kA    | I <sub>sc</sub> ≤ 50 kA | I <sub>sc</sub> (IT 400 V AC) ≤ 5 kA |
| iPRD65         | Curve C 50 A               | Curve C 63 A            | Curve C 25 A                         |
| iPRD40         | Curve C 40 A               | Curve C 63 A            | Curve C 20 A                         |
| iPRD8          | Curve C 10 A               | Curve C 63 A            | Curve C 10 A                         |

### iPRD dimensions (mm)



### Weight (g)

| Surge arrester |      |
|----------------|------|
| Type           | iPRD |
| 1P             | 119  |
| 1P+N           | 220  |
| 3P             | 340  |
| 3P+N           | 450  |

# iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters (cont.)

## iPRD surge arresters

PB110281-60

### Satisfactory operation indication

- By mechanical indicator
- white: operating
- red: cartridge must be replaced

■ Remote indication

### Terminals

■ IP20



## Connection iPRD surge arrester with its short circuit disconnecter

### TN-S

Power supply through the top  
Connection with cables

PB110289-50

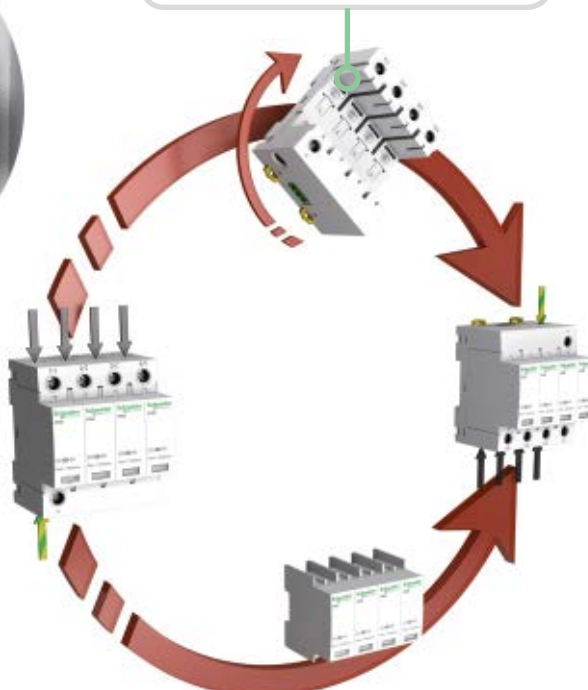


Surge arrester iPRD 3P+N + iC60N 3P+N

PB110287-40

### Reversible

- The surge arrester base can be turned over to allow the phase/neutral/earth cables to enter through either the top or the bottom



### TN-S

Power supply through the bottom  
Connection with comb busbar

PB110793-50



Surge arrester iPRD 3P+N + iC60N 3P+N

### TNC

Power supply through the bottom  
Connection with comb busbar

PB110794-50



Surge arrester iPRD 3P+N + iC60N 3P+N



Each surge arrester in the range has a specific application:

■ **incoming protection (type 2):**

the iPF K 20 is recommended for a medium risk level.

The iPF K multi-pole single-piece surge arrester range is adapted for earthing systems: TT, TN-S, TN-C.

Type 2 surge arresters are tested with a 8/20  $\mu$ s current wave.



1P



1P+N



3P



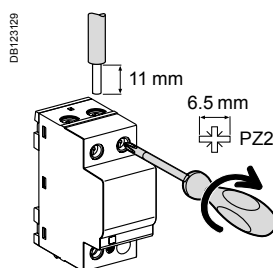
3P+N

| Rated discharge current (I <sub>max</sub> ) / Nominal discharge current (I <sub>n</sub> ) | Type of protection | Network  |          |          |          |
|-------------------------------------------------------------------------------------------|--------------------|----------|----------|----------|----------|
|                                                                                           |                    | DB122942 |          | DB407087 |          |
|                                                                                           |                    |          |          |          |          |
|                                                                                           | Incoming           | 1P+N     | 3P+N     | 1P       | 3P       |
| 20 kA / 5 kA                                                                              |                    |          |          |          |          |
| Medium risk level                                                                         | iPF K 20           |          |          | A9L15691 |          |
|                                                                                           |                    | A9L15692 |          |          |          |
|                                                                                           |                    |          | A9L15693 |          | A9L15597 |

### Cartridges

| Surge arrester/circuit breaker association |                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------|
| Type of surge arrester                     | Associated circuit breaker (1 to 4 poles protected) (I <sub>sc</sub> ≤ 6 kA) |
| iPF K 20                                   | iK60N Curve C 20 A                                                           |

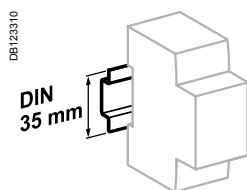
### Connection



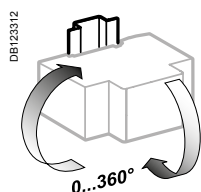
| Type  | Tightening torque | Copper cables                       |                                     |
|-------|-------------------|-------------------------------------|-------------------------------------|
|       |                   | Rigid                               | Flexible or with ferrule            |
| iPF K | 3.5 N.m           | DB122945<br>25 mm <sup>2</sup> max. | DB122946<br>16 mm <sup>2</sup> max. |

|          | Earthing system | Surge arrester name | Width in mod. of 9 mm | Up - (kV)<br>Voltage protection level |       |       | Un - (V)<br>Rated voltage network | Uc - (V)<br>Maximum continious operating voltage |     |     |
|----------|-----------------|---------------------|-----------------------|---------------------------------------|-------|-------|-----------------------------------|--------------------------------------------------|-----|-----|
|          |                 |                     |                       | CM*                                   |       | DM*   |                                   | CM*                                              |     | DM* |
|          |                 |                     |                       | L/⏚                                   | N/⏚   | L/N   |                                   | L/⏚                                              | N/⏚ | L/N |
| iPF K 20 |                 |                     |                       |                                       |       |       |                                   |                                                  |     |     |
|          | TN              | iPF K 20 1P         | 2                     | ≤ 1.1                                 | -     | -     | 230                               | 340                                              | -   | -   |
|          | TN-S            | iPF K 20 1P+N       | 4                     | -                                     | ≤ 1.5 | ≤ 1.1 |                                   | -                                                | 260 | 340 |
|          | TN-C            | iPF K 20 3P         | 8                     | ≤ 1.1                                 | -     | -     | 230/400                           | 340                                              | -   | -   |
|          | TN-S            | iPF K 20 3P+N       |                       | -                                     | ≤ 1.5 | ≤ 1.1 |                                   | -                                                | 260 | 340 |

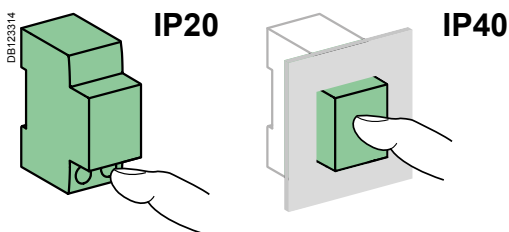
\* **CM**: common mode (phase to earth and neutral to earth). \* **DM**: differential mode (phase to neutral). (1) **Uoc**: combined waveform voltage: 10 kV.



Clip on DIN rail 35 mm.



Indifferent position of installation.



## Technical data

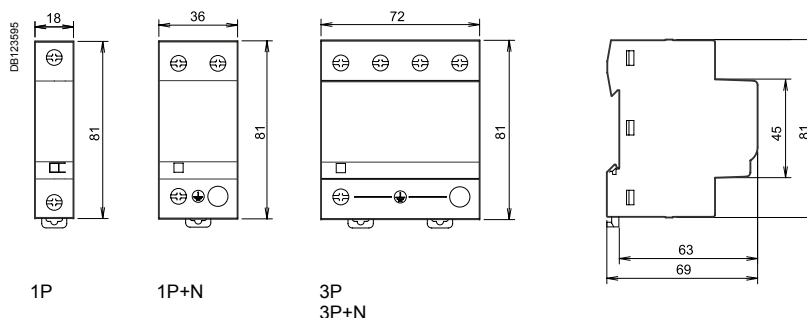
### Main characteristics

|                                                                 |                        |                     |
|-----------------------------------------------------------------|------------------------|---------------------|
| Operating frequency                                             |                        | 50/60 Hz            |
| Rated voltage network (Un)                                      |                        | 230/400 V AC ±10 %  |
| Permanent operating current (Ic)                                |                        | < 5 mA              |
| Response time                                                   |                        | < 25 ns             |
| Short circuit withstand (I <sub>SCCR</sub> )                    |                        | 25 kA (50 Hz)       |
| Temporary overvoltage withstand (U <sub>T</sub> )<br>LV network | U <sub>T</sub> (L-N)   | 337 V AC / 5 s      |
|                                                                 | U <sub>T</sub> (L-PE)  | 442 V AC / 120 min  |
| Temporary overvoltage withstand (U <sub>T</sub> )<br>HV network | U <sub>T</sub> (N-PE)  | 1200 V AC / 200 ms  |
|                                                                 | U <sub>T</sub> (L-PE)  | 1453 V AC / 200 ms  |
| Ground residual current (I <sub>PE</sub> )                      | I <sub>PE</sub> (L-PE) | 1P: ≤ 5 mA          |
|                                                                 |                        | 3P: ≤ 25 mA         |
|                                                                 | I <sub>PE</sub> (N-PE) | 3 µA for 1P+N, 3P+N |
| Operation indication by mechanical indicator                    | Green                  | In operation        |
|                                                                 | Red                    | At end of life      |

### Additional characteristics

|                                  |                                            |                         |
|----------------------------------|--------------------------------------------|-------------------------|
| Degree of protection (IEC 60529) | Device only<br>Device in modular enclosure | IP20 (built-in)<br>IP40 |
| Operating temperature            | -25°C to +60°C                             |                         |
| Humidity range                   | 5 % to 95 %                                |                         |
| Standards                        | IEC 61643-11: 2011 [T2]                    |                         |

## Dimensions (mm)



## Weight (g)

| Surge arrester |       |
|----------------|-------|
| Type           | iPF K |
| 1P             | 125   |
| 1P+N           | 210   |
| 3P             | 335   |
| 3P+N           | 420   |

# iPRD-DC surge arresters

## Withdrawable surge arresters type 2 for photovoltaic applications



Country approval pictograms

IEC 61643-1 **T2**  
EN 61643-11 Type 2  
UTE C 61740-51 **T2**  
prEN 50539-11 **T2**



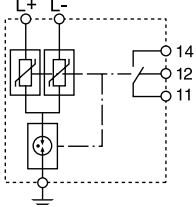
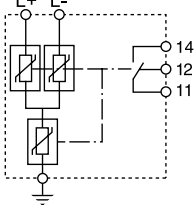
iPRD-DC40r 600PV

iPRD-DC direct current surge arresters are designed to protect against overvoltages due to a lightning strike: of the "DC" input to the inverter and of photovoltaic panels.

It should be installed in a switchboard inside the building. If the switchboard is located outside, it must be weatherproof.

Withdrawable iPRD-DC surge arresters allow damaged cartridges to be replaced quickly.  
They offer remote reporting of the "cartridge must be changed" message.

### Catalogue numbers

| Internal diagram                                                                                        | Imax (kA)<br>Maximum discharge current | In (kA)<br>Nominal discharge current | Up (kV)<br>Protection level |                           |       | U <sub>CPV</sub> (V) <sup>(1)</sup><br>Maximum steady state voltage |                           |       | Width in module of 9 mm | Cat. no. |
|---------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|-----------------------------|---------------------------|-------|---------------------------------------------------------------------|---------------------------|-------|-------------------------|----------|
|                                                                                                         |                                        |                                      | L+/ $\overline{\text{L}}$   | L-/ $\overline{\text{L}}$ | L+/L- | L+/ $\overline{\text{L}}$                                           | L-/ $\overline{\text{L}}$ | L+/L- |                         |          |
| iPRD-DC40r 600PV                                                                                        |                                        |                                      |                             |                           |       |                                                                     |                           |       |                         |          |
| <div>DB124051</div>  | 40                                     | 15                                   | 1.6                         | 1.6                       | 2.8   | 600                                                                 | 600                       | 840   | 6                       | A9L16434 |
| iPRD-DC40r 1000PV                                                                                       |                                        |                                      |                             |                           |       |                                                                     |                           |       |                         |          |
| <div>DB124052</div>  | 40                                     | 15                                   | 3.9                         | 3.9                       | 3.9   | 1000                                                                | 1000                      | 1000  | 6                       | A9L16436 |

(1) U<sub>cpv</sub> ≥ 1.2 x U<sub>oc stc</sub> (U<sub>oc stc</sub>: maximum no-load voltage of the photovoltaic generator "photovoltaic module manufacturer's data")



Replacement cartridges

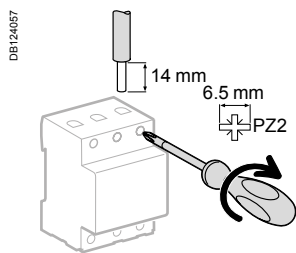
### Replacement cartridges

| Type         | Replacement cartridges for | Cat. no.        |
|--------------|----------------------------|-----------------|
| C 40-600PV   | iPRD-DC40r 600PV           | <b>A9L16683</b> |
| C 40-1000PV  | iPRD-DC40r 1000PV          | <b>A9L16692</b> |
| C neutral PV | iPRD-DC40r 600PV           | <b>A9L16690</b> |

# iPRD-DC surge arresters

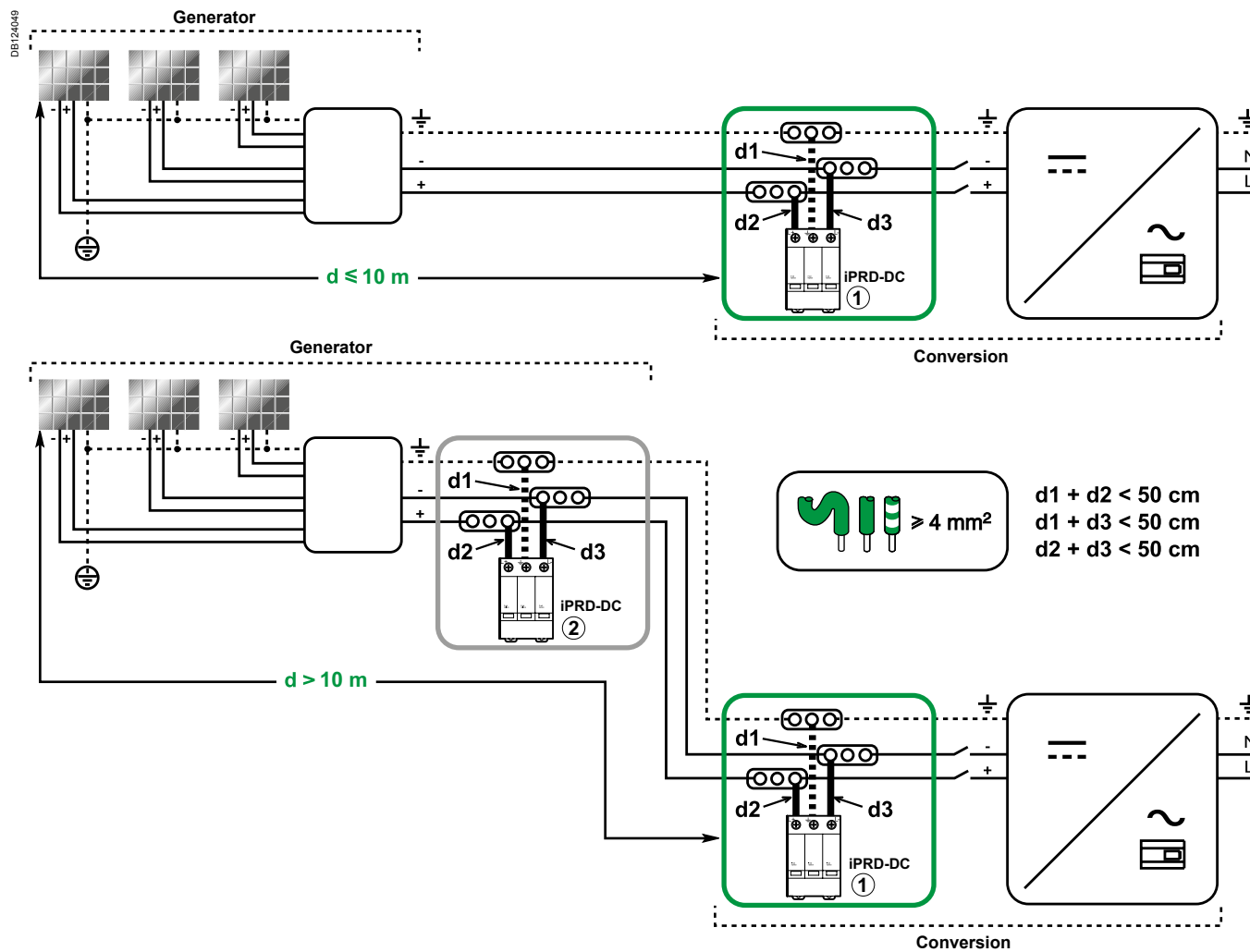
Withdrawable surge arresters type 2 for photovoltaic applications (cont.)

## Connection



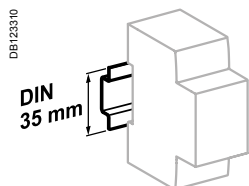
| Type    | Tightening torque | Copper cables                                                                                                           |                                                                                                                           |
|---------|-------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|         |                   | Rigid                                                                                                                   | Flexible or with ferrule                                                                                                  |
| iPRD-DC | 2 N.m             |  DB122945<br>2.5 to 25 mm <sup>2</sup> |  DB122946<br>2.5 to 16 mm <sup>2</sup> |

Depending on the distance between the "generator" part and the "conversion" part, it may be necessary to install two surge arresters or more, to ensure protection of each of the two parts.

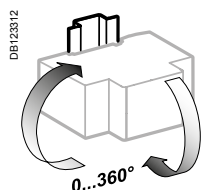


# iPRD-DC surge arresters

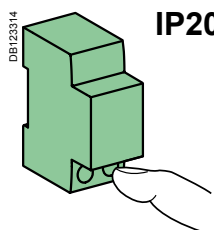
## Withdrawable surge arresters type 2 for photovoltaic applications (cont.)



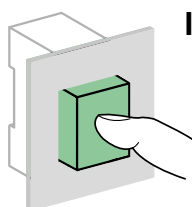
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

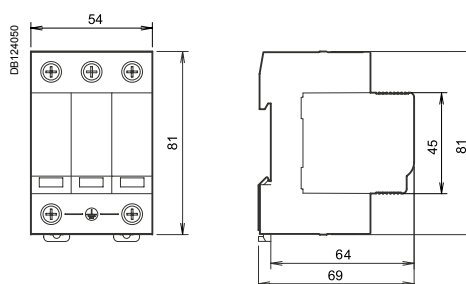
### Technical data

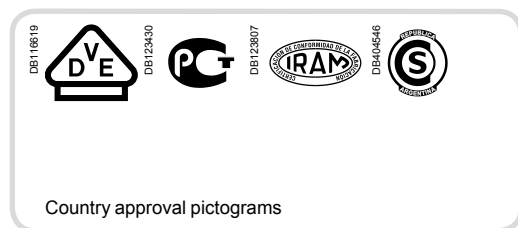
| Main characteristics                       |                                                          |                                                   |                |
|--------------------------------------------|----------------------------------------------------------|---------------------------------------------------|----------------|
| Type of network                            |                                                          | Isolated direct current                           |                |
| Temps de réponse                           |                                                          | < 25 ns                                           |                |
| Short circuit current (I <sub>SCPv</sub> ) |                                                          | 30 A                                              |                |
| Type of surge arresters                    |                                                          | Type 2                                            |                |
| End-of-life indication mode                |                                                          | Circuit opened by integrated thermal disconnecter |                |
| Additional characteristics                 |                                                          |                                                   |                |
| Degree of protection<br>(IEC 60529)        | Device only                                              | IP20                                              |                |
|                                            | Device in modular enclosure                              | IP40                                              |                |
|                                            | Chocs                                                    | IK03                                              |                |
| End-of-life indication                     | By the cartridges                                        | White                                             | Operational    |
|                                            |                                                          | Red                                               | At end of life |
|                                            | By the NO/NC remote indication contact 250 V AC / 0.25 A |                                                   |                |
| Operating temperature                      |                                                          | -25°C to +60°C                                    |                |
| Storage temperature                        |                                                          | -40°C to +85°C                                    |                |
| Tropicalization (IEC 60068-1)              |                                                          | Treatment 2 (relative humidity of 95 % at 55°C)   |                |

### Weight (g)

| Surge arresters   |     |
|-------------------|-----|
| Type              |     |
| iPRD-DC40r 600PV  | 400 |
| iPRD-DC40r 1000PV | 400 |

### Dimensions (mm)





## IEC/EN 60947-3

The switch-disconnectors combine the following functions:

- Control (opening and closing of circuits under load).

### iOF auxiliary

- Mounted on the left, it indicates the "open" or "closed" position of the switch and has a normally open (NO) or normally closed (NC) contact.



1P



3P



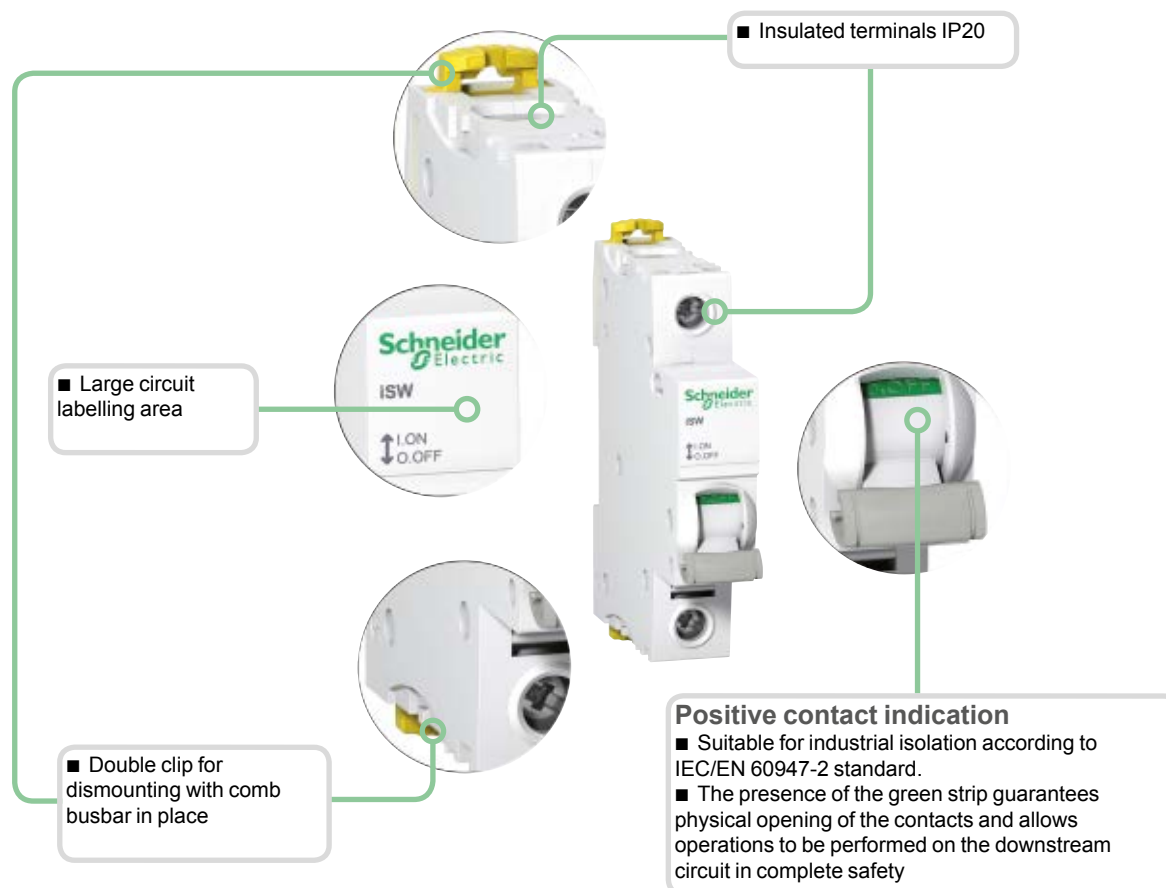
4P

## Catalogue numbers

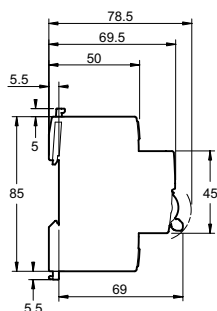
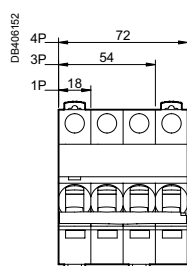
| 40 to 125 A iSW switch-disconnectors |              |                      |                      |                       |
|--------------------------------------|--------------|----------------------|----------------------|-----------------------|
| Type                                 |              |                      |                      | Width in 9 mm modules |
| 1P                                   | Rating       | Voltage (Ue)         |                      |                       |
| DB118998<br>1<br>2                   | 40 A         | 240 V AC             | A9S65140             | 2                     |
| 3P                                   |              |                      |                      |                       |
| DB119000<br>1 3 5<br>2 4 6           | 40 A<br>63 A | 415 V AC<br>415 V AC | A9S65340<br>A9S65363 | 6                     |
| 4P                                   |              |                      |                      |                       |
| DB119001<br>1 3 5 7<br>2 4 6 8       | 40 A         | 415 V AC             | A9S65440             | 8                     |
| Operating frequency                  |              | 50/60 Hz             |                      |                       |
| Accessories                          |              | See page 94          |                      |                       |



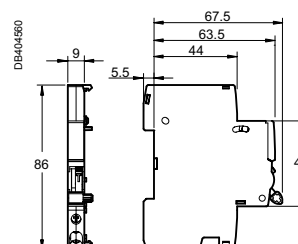
| Auxiliary            |                                 |          |                       |
|----------------------|---------------------------------|----------|-----------------------|
| Type                 |                                 |          | Width in 9 mm modules |
| iOF                  | Voltage (Ue)                    |          |                       |
| DB118910<br>14 12 11 | 240...415 V AC<br>24...130 V DC | A9A26924 | 1                     |



## Dimensions (mm)

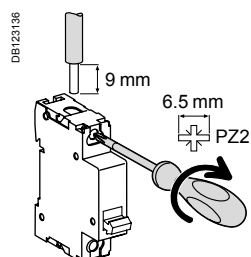


iSW

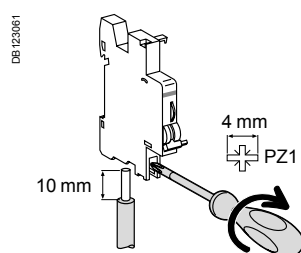


iOF

## Connection



| Type | Rating      | Tightening torque | Copper cables                    |                                  |
|------|-------------|-------------------|----------------------------------|----------------------------------|
|      |             |                   | Rigid                            | Flexible or with ferrule         |
| iSW  | 40 to 125 A | 3.5 N.m           | DB123145<br>≤ 50 mm <sup>2</sup> | DB123146<br>≤ 35 mm <sup>2</sup> |



| Type | Tightening torque | Copper cables                      |                                        | Multi-cables terminal               |                                     |
|------|-------------------|------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------|
|      |                   | Rigid                              | Flexible                               | Rigid cables                        | Cables with ferrule                 |
| iOF  | 1 N.m             | DB123145<br>1 to 4 mm <sup>2</sup> | DB123007<br>0.5 to 2.5 mm <sup>2</sup> | DB123011<br>2 x 2.5 mm <sup>2</sup> | DB123008<br>2 x 1.5 mm <sup>2</sup> |

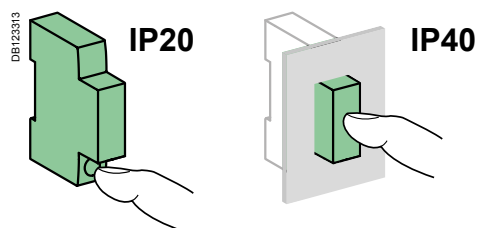
## Technical data

### Main characteristics

|                                                      |                                      |
|------------------------------------------------------|--------------------------------------|
| Insulation voltage (Ui)                              | 1P: 250 V AC<br>2P, 3P, 4P: 500 V AC |
| Pollution degree                                     | 3                                    |
| Power circuit                                        |                                      |
| Rated impulse withstand voltage (Uimp)               | 6 kV                                 |
| Operating category                                   | AC - 22 A                            |
| Permissible rated short-time withstand current (Icw) | 1500 A                               |
| Conditional rated short-circuit current (Inc)        | 10 kA according to IEC 60947-3       |
| Rated short-circuit closing current (Icm)            | 5 kA                                 |

### Additional characteristics

|                       |                                             |                             |               |
|-----------------------|---------------------------------------------|-----------------------------|---------------|
| Degree of protection  | Device only                                 | IP20                        |               |
|                       | Device in modular enclosure                 | IP40<br>Insulation class II |               |
| Endurance (O-C)       | Mechanical                                  | 20,000 cycles               |               |
|                       |                                             | 40 A - 63 A                 | 15,000 cycles |
|                       |                                             | 80 A - 100 A                | 10,000 cycles |
|                       |                                             | 125 A                       | 2 500 cycles  |
| Operating temperature | -25°C to +60°C                              |                             |               |
| Storage temperature   | -40°C to +85°C                              |                             |               |
| Tropicalization       | Treatment 2 (relative humidity 95% at 55°C) |                             |               |



### iOF characteristics

|                       |                |       |
|-----------------------|----------------|-------|
| Rated voltage (Ue)    | 240...415 V AC |       |
|                       | 24...130 V DC  |       |
| Operating frequency   | 50/60 Hz       |       |
| Operating current     | 24 V DC        | 6 A   |
|                       | 48 V DC        | 2 A   |
|                       | 60 V DC        | 1.5 A |
|                       | 130 V DC       | 1 A   |
|                       | 240 V AC       | 6 A   |
|                       | 415 V AC       | 3 A   |
| Number of contacts    | 1 NO/NC        |       |
| Operating temperature | -35°C to +70°C |       |
| Storage temperature   | -40°C to +85°C |       |

## Position contact indication

- Suitable for industrial isolation according to IEC/EN 60947-3 standard.
- The presence of the green strip guarantees physical opening of the contacts and allows operations to be performed on the downstream circuit in complete safety.



## IEC/EN 60669-1, iSW switch with indicator light.

## IEC/EN 60669-2-4, iSW switch without indicator light.

These switches are used for:

- Control (opening and closing of circuits under load).
- The 1P and 2P switches are available with or without indicator light.
- Disconnection, for switches without indicator light IEC/EN 60669-2-4.

## OF iSW auxiliary

- Mounted on the left, it indicates the "open" or "closed" position of the switch and has a normally open (NO) or normally closed (NC) contact.



Control switches



## Catalogue numbers

### 20, 32 A iSW control switches

| Type                      | Rating | Voltage (Ue) |                 | Width in 9 mm modules |
|---------------------------|--------|--------------|-----------------|-----------------------|
| <b>1P</b><br><br>DB118988 | 20 A   | 250 V AC     | <b>A9S60120</b> | 2                     |
|                           | 32 A   | 250 V AC     | <b>A9S60132</b> |                       |
| <b>2P</b><br><br>DB118969 | 20 A   | 250 V AC     | -               | 2                     |
|                           |        | 415 V AC     | <b>A9S60220</b> |                       |
|                           | 32 A   | 250 V AC     | -               |                       |
|                           |        | 415 V AC     | <b>A9S60232</b> |                       |
| <b>3P</b><br><br>DB119000 | 20 A   | 415 V AC     | <b>A9S60320</b> | 4                     |
|                           | 32 A   | 415 V AC     | <b>A9S60332</b> |                       |
| <b>4P</b><br><br>DB119001 | 20 A   | 415 V AC     | <b>A9S60420</b> | 4                     |
|                           | 32 A   | 415 V AC     | <b>A9S60432</b> |                       |
| Operating frequency       |        |              | 50/60 Hz        |                       |
| Accessories               |        |              | See page 100    |                       |



Control switches with indicator light

## Catalogue numbers (cont.)

### 20, 32 A iSW control switches with indicator light

| Type                |        |                       | Width in 9 mm modules |
|---------------------|--------|-----------------------|-----------------------|
| 1P                  | Rating | 230 V indicator light |                       |
|                     | 20 A   | A9S61120              | 2                     |
|                     | 32 A   | A9S61132              |                       |
| 2P                  | Rating | 230 V indicator light |                       |
|                     | 20 A   | A9S61220              | 2                     |
|                     | 32 A   | A9S61232              |                       |
| Operating frequency |        | 50/60 Hz              |                       |
| Accessories         |        | See page 100          |                       |

### Spare indicator lights for 20, 32 A iSW switches

| Type                                         |              |       |
|----------------------------------------------|--------------|-------|
| Neon                                         | Voltage (Ue) |       |
| Supplied with a red diffuser<br>(Pack of 10) | 230 V AC     | 15111 |



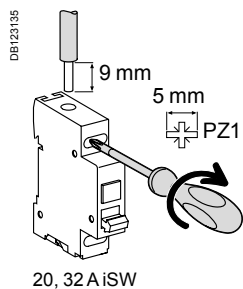
OF iSW

## Catalogue numbers (cont.)

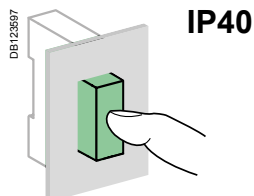
### Auxiliary

| Type   |        |              | Width in 9 mm modules |
|--------|--------|--------------|-----------------------|
| OF iSW | Rating | Voltage (Ue) |                       |
|        | 3 A    | 415 V AC     | 2                     |
|        | 6 A    | 250 V AC     |                       |
|        |        | A9A15096     |                       |

## Connection



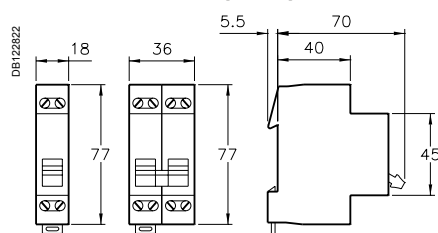
| Type   | Rating          | Tightening torque | Copper cables      |                          |
|--------|-----------------|-------------------|--------------------|--------------------------|
|        |                 |                   | Rigid              | Flexible or with ferrule |
| iSW    | <b>20, 32 A</b> | 1.2 N.m           | 10 mm <sup>2</sup> | 10 mm <sup>2</sup>       |
| OF iSW | -               | 1.2 N.m           | 10 mm <sup>2</sup> | 10 mm <sup>2</sup>       |



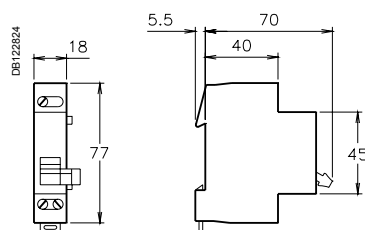
## Technical data

| Main characteristics                          |            | 20, 32 A iSW                                                        |                                  |
|-----------------------------------------------|------------|---------------------------------------------------------------------|----------------------------------|
| Insulation voltage (Ui)                       |            | Without indicator light<br>■ 1P: 250 V AC<br>■ 2P, 3P, 4P: 500 V AC | With indicator light<br>250 V AC |
| Pollution degree                              |            | 2                                                                   |                                  |
| Power circuit                                 |            |                                                                     |                                  |
| Rated impulse withstand voltage (Uimp)        |            | 4 kV                                                                |                                  |
| Operating category                            |            | AC - 22 A                                                           |                                  |
| Conditional rated short-circuit current (Inc) |            | 3 kA to IEC/EN 60669-2-4                                            |                                  |
| Additional characteristics                    |            |                                                                     |                                  |
| Degree of protection                          |            | IP40 on the front panel                                             |                                  |
| Endurance (O-C)                               | Mechanical | 300,000 cycles                                                      |                                  |
|                                               | Electrical | 30,000 cycles                                                       |                                  |
| Operating temperature                         |            | -20°C to +50°C                                                      |                                  |
| Storage temperature                           |            | -40°C to +70°C                                                      |                                  |
| Tropicalization                               |            | Treatment 2 (relative humidity 95% at 55°C)                         |                                  |

## Dimensions (mm)



1P, 2P 3P, 4P  
20, 32 A iSW

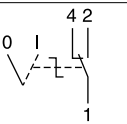
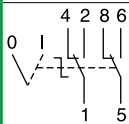
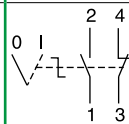
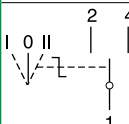
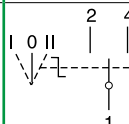


OF iSW

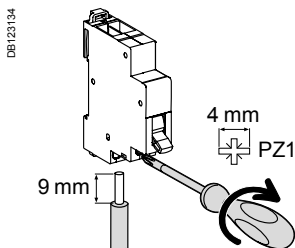
## IEC 60669-1 and IEC 60947-5-1

■ iSSW linear switches are used for the manual control of electric circuits.

## Catalogue numbers

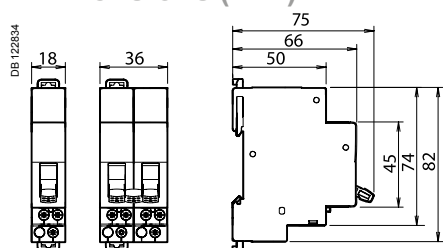
| iSSW linear switches  |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |
|-----------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Type                  | 2 positions                                                                        |                                                                                    |                                                                                    | 3 positions                                                                          |                                                                                      |
|                       |   |                                                                                    |                                                                                    |   |                                                                                      |
| Contact               | 1 changeover switch                                                                | 2 changeover switches                                                              | 1 NO + 1NC                                                                         | 1 changeover switch                                                                  | 2 changeover switches                                                                |
| Diagram               |  |  |  |  |  |
| Cat. no.              | A9E18070                                                                           | A9E18071                                                                           | A9E18072                                                                           | A9E18073                                                                             | A9E18074                                                                             |
| Width in 9 mm modules | 2                                                                                  | 4                                                                                  | 2                                                                                  | 2                                                                                    | 4                                                                                    |

## Connection

|  | Tightening torque                                                                     |  | Copper cables                                                                         |  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|
|                                                                                     | Rigid                                                                                 |  | Flexible or with ferrule                                                              |  |
| 1 N.m                                                                               |  |  |  |  |
|                                                                                     | 0.5 mm <sup>2</sup> min.<br>2 x 2.5 mm <sup>2</sup> max.                              |  | 0.5 mm <sup>2</sup> min.<br>2 x 2.5 mm <sup>2</sup> max.                              |  |

- Phase-separated wall that can be divided to allow the teeth of all types of comb busbar to pass through.
- Staggered terminals to simplify connection.

## Dimensions (mm)



## Technical data

| Main characteristics       |                                              |
|----------------------------|----------------------------------------------|
| Pollution degree           | 3                                            |
| Power circuit              |                                              |
| Voltage rating (Ue)        | 250 V AC                                     |
| Current rating (Ie)        | 20 A                                         |
| Additional characteristics |                                              |
| Endurance (O-C)            | 30,000 cycles AC22 (cos φ = 0.8)             |
| Operating temperature      | -20°C... +50°C                               |
| Storage temperature        | -40°C... +70°C                               |
| Tropicalization            | Treatment 2 (relative humidity 95 % at 55°C) |

# iSW-NA switch-disconnector remote tripping



Country approval pictograms

## IEC/EN 60947-3

The iSW-NA trip switch-disconnector combine the following functions:

- control (opening and closing of circuits under load)
- isolation.

It is designed for switchboard or cubicle incoming units in the tertiary and industry sectors, with the possibility of remote tripping via a coil.

### Positive break indication

- Suitability for isolation in the industrial sector to IEC/EN 60947-3.
- The presence of the green strip guarantees that the contacts open physically and allows work to be carried out safely on the downstream circuit.

PB107097-40



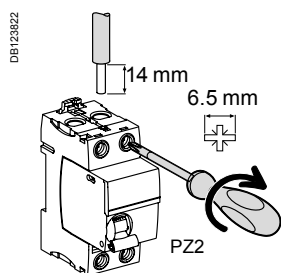
## Catalogue number

| iSW-NA              |        |              |                       |
|---------------------|--------|--------------|-----------------------|
| Type                |        |              | Width in 9 mm modules |
| 3P+N                | Rating |              |                       |
|                     | 40 A   | A9S70740     | 8                     |
| Voltage rating (Ue) |        | 400-415 V AC |                       |
| Operating frequency |        | 50/60 Hz     |                       |
| Auxiliaries*        |        | See page 21  |                       |
| Accessories         |        | See page 94  |                       |

\* Electrical auxiliaries must be installed to the left of the switch-disconnector. The iSD auxiliary contact must be combined with an auxiliary device (iMN, iMX, iMX+OF): it indicates that the switch-disconnector has been tripped open..

# iSW-NA switch-disconnector remote tripping(cont.)

## Connection



| Type   | Tightening torque | Without accessory       |                          | With accessories               |                                       |                                               |
|--------|-------------------|-------------------------|--------------------------|--------------------------------|---------------------------------------|-----------------------------------------------|
|        |                   | Copper cables           |                          | 50 mm <sup>2</sup> Al terminal | Screw-on connection for ring terminal | Multi-cables terminal                         |
|        |                   | Rigid                   | Flexible or with ferrule |                                |                                       | Rigid cables      Flexible cables             |
| iSW-NA | 3.5 N.m           | DB122945<br>            | DB122946<br>             | DB122935<br>                   | DB118789<br>                          | DB118787<br>                                  |
|        |                   | 1 to 35 mm <sup>2</sup> | 1 to 25 mm <sup>2</sup>  | 50 mm <sup>2</sup>             | Ø 5 mm                                | 3 x 16 mm <sup>2</sup> 3 x 10 mm <sup>2</sup> |

## Technical data

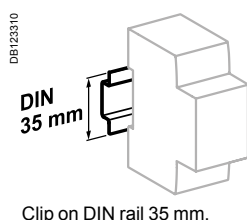
### Main characteristics

#### According to IEC 60947-3

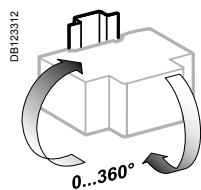
|                                                      |                                              |
|------------------------------------------------------|----------------------------------------------|
| Insulation voltage (Ui)                              | 500 V AC                                     |
| Pollution degree                                     | 3                                            |
| Rated impulse withstand voltage (Uimp)               | 6 kV                                         |
| Operating category                                   | AC22A                                        |
| Permissible rated short-time withstand current (Icw) | 20 In/1s                                     |
| Rated short-circuit making (Icm)                     | 5 kA                                         |
| Conditional rated short circuit current (Inc/IΔc)    | With iC60N/H/L<br>With fuse                  |
|                                                      | Equal to breaking capacity of iC60<br>6000 A |

### Additional characteristics

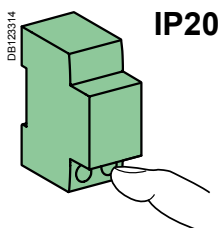
|                       |                             |                                              |
|-----------------------|-----------------------------|----------------------------------------------|
| Degree of protection  | Device only                 | IP20                                         |
|                       | Device in modular enclosure | IP40                                         |
|                       |                             | Insulation class II                          |
| Endurance (O-C)       | Electrical                  | 15,000 cycles                                |
|                       | Mechanical                  | 20,000 cycles                                |
| Operating temperature |                             | -35°C to +70°C                               |
| Storage temperature   |                             | -40°C to +85°C                               |
| Tropicalization       |                             | Treatment 2 (relative humidity 95 % at 55°C) |



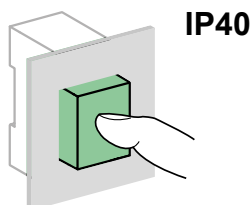
Clip on DIN rail 35 mm.



Indifferent position of installation.

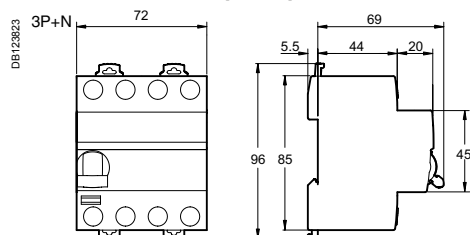


IP20



IP40

## Dimensions (mm)



## Weight (g)

### Switch-disconnectors

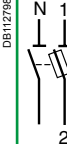
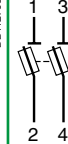
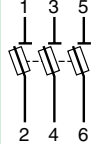
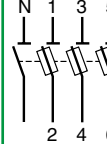
| Type | iSW-NA |
|------|--------|
| 3P+N | 300    |



| STI                               | Cartridges                                 |
|-----------------------------------|--------------------------------------------|
| IEC/EN 60947-3,<br>IEC/EN 60269-2 | IEC 60269-1, IEC 60269-2,<br>NF C 60-200-2 |

- The STI isolatable fuse-carriers provide overload and short-circuit protection.
  - They are used for industrial applications requiring a high breaking capacity.
  - They perform the isolation function and must not be used as switches.
  - To be equipped with aM or gG (gL - gI) type fuse cartridge without striker, with or without fuse blowing indicator.
  - Isolation of all poles is guaranteed for the 2P, 3P, and 3P+N versions during factory assembly.
- The general purpose fuse (**gG fuse**) provides overload and short-circuit protection. The fuse for motor application (**aM fuse**) only provides short-circuit protection. It is used for protection of loads with a high peak current (motors, transformer primaries, etc.).

## Catalogue numbers

| Fuse cartridge (Type F)                                                             |        |                     |                             |        |           |           | STI fuse holder                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|--------|---------------------|-----------------------------|--------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                |        |                     |                             |        |           |           | Network type                                                                        |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|  | Rating | Voltage rating (Ue) | Short-circuit current (Isc) |        |           |           |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     |        |                     | aM                          | gG     | aM        | gG        | 1P                                                                                  | 1P+N <sup>(1)</sup>                                                                  | 2P                                                                                    | 3P                                                                                    | 3P+N <sup>(1)</sup>                                                                   |
|                                                                                     |        |                     |                             |        |           |           |  |  |  |  |  |
| 8.5 x 31.5 mm                                                                       | 2 A    | 400 V AC            | 20 kA                       | 20 kA  | DF2BA0200 | DF2BN0200 | A9N15635                                                                            | -                                                                                    | -                                                                                     | -                                                                                     | -                                                                                     |
|                                                                                     | 4 A    | 400 V AC            | 20 kA                       | 20 kA  | DF2BA0400 | DF2BN0400 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 6 A    | 400 V AC            | 20 kA                       | 20 kA  | DF2BA0600 | DF2BN0600 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 8 A    | 400 V AC            | 20 kA                       | 20 kA  | DF2BA0800 | DF2BN0800 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 10 A   | 400 V AC            | 20 kA                       | 20 kA  | DF2BA1000 | DF2BN1000 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| 10.3 x 38 mm                                                                        | 2 A    | 500 V AC            | 120 kA                      | 120 kA | DF2CA02   | DF2CN02   | A9N15636                                                                            | A9N15646                                                                             | A9N15651                                                                              | A9N15656                                                                              | A9N15658                                                                              |
|                                                                                     | 4 A    | 500 V AC            | 120 kA                      | 120 kA | DF2CA04   | DF2CN04   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 6 A    | 500 V AC            | 120 kA                      | 120 kA | DF2CA06   | DF2CN06   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 10 A   | 500 V AC            | 120 kA                      | 120 kA | DF2CA10   | DF2CN10   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 16 A   | 500 V AC            | 120 kA                      | 120 kA | DF2CA16   | DF2CN16   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 20 A   | 500 V AC            | -                           | 120 kA | -         | DF2CN20   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | 25 A   | 500 V AC            | -                           | 120 kA | -         | DF2CN25   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |

(1) The neutral pole comes equipped with a locked tube.

## 230 V neon indicator light (Option)

- Indicates fuse blowing (off in normal operation and lit red after fuse blowing)
- 400 V maxi

## Padlocking device

- Locks the toggle in the "open" or "closed" position. Used with an 8 mm max. diameter padlock (not supplied):
  - only one padlock for 1P, 1P+N and 2P products (on the left pole)
  - and two padlock on the 3P and 3P+N products (on every extremity)

## 1P+N, 3P+N

- Phase opening causes compulsory opening of the neutral
- The phase opens before the neutral on isolation and closes after the neutral on circuit closing
- Small dimensions
  - 1P+N in 18 mm
  - 3P+N in 54 mm

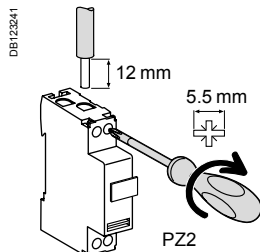
## Clip-on markers

- Used to identify:
  - either on the front face
  - or on the downstream terminals

## Fuse-carrier

- Captive
- Additional housing is provided for a spare fuse

## Connection

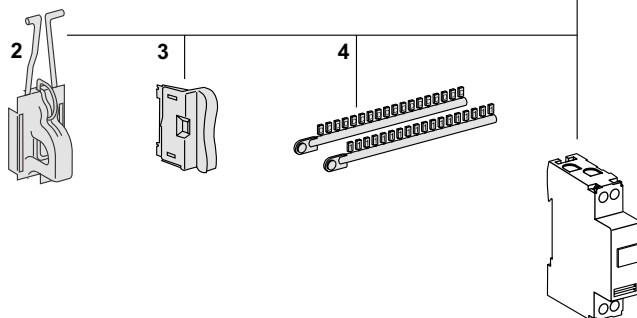


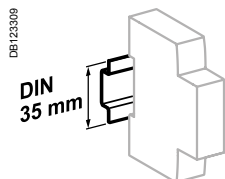
| Type | Rating | Tightening torque | Without accessory                                                                   |                                                                                      | With accessories                                                                      |
|------|--------|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|      |        |                   | Copper cables                                                                       |                                                                                      | Screw-on connection for ring terminal                                                 |
|      |        |                   | Rigid                                                                               | Flexible or with ferrule                                                             |                                                                                       |
|      |        |                   |  |  |  |
| STI  | All    | 2 N.m             | 0.75 to 10 mm <sup>2</sup><br>2 x 0.75 mm <sup>2</sup> to 2 x 4 mm <sup>2</sup>     | 0.5 to 6 mm <sup>2</sup><br>2 x 0.5 mm <sup>2</sup> to 2 x 4 mm <sup>2</sup>         | Ø 5 mm                                                                                |

1 Screw-on connection for ring terminal 27053

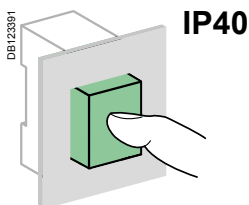
## Mounting accessories

|   |                          |                       |
|---|--------------------------|-----------------------|
| 2 | Padlocking device        | 15669                 |
| 3 | Neon indicator light     | 1 piece blister 15668 |
| 4 | Clip-on terminal markers | See page 97           |





Clip on DIN rail 35 mm.



## Technical data

### Main characteristics

|                                                         |       |
|---------------------------------------------------------|-------|
| Insulation voltage (Ui)                                 | 500 V |
| Breaking capacity according to IEC 60269-2 $\leq 400$ V | 50 kA |
| Pollution degree                                        | 3     |
| Operating frequency (Hz)                                | 50/60 |

### Additional characteristics

|                       |                             |                     |
|-----------------------|-----------------------------|---------------------|
| Degree of protection  | Device in modular enclosure | IP40                |
| Operating temperature |                             | Insulation class II |
| Storage temperature   |                             | -20°C to +60°C      |
|                       |                             | -40°C to +80°C      |

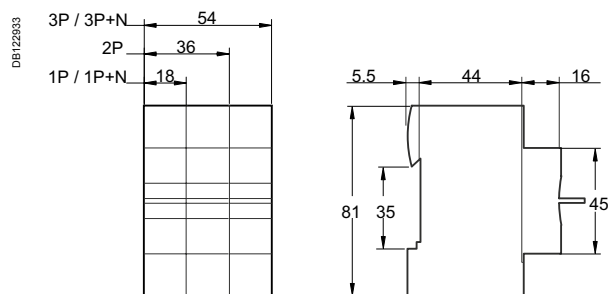
### Maximum dissipated power per pole of STI isolatable fuse-carriers

| Fuse cartridge type | I <sub>th</sub> | P <sub>max</sub> |
|---------------------|-----------------|------------------|
| 8.5 x 31 mm         | aM              | 10 A             |
|                     | gG              | 20 A             |
| 10.3 x 38 mm        | aM              | 16 A             |
|                     | gG              | 25 A             |
|                     |                 | 3 W              |

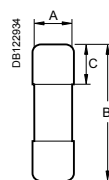
### Maximum dissipated power per fuse cartridges

| Fuse cartridge type | I <sub>th</sub> | P <sub>max</sub> |
|---------------------|-----------------|------------------|
| 8.5 x 31 mm         | aM              | 2 to 10 A        |
|                     | gG              | 2 to 10 A        |
| 10.3 x 38 mm        | aM              | 2 to 25 A        |
|                     | gG              | 2 to 25 A        |
|                     |                 | 3 W              |

## Dimensions (mm)



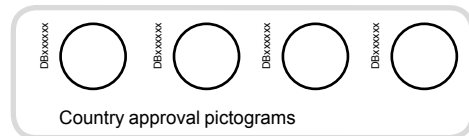
STI



aM, gG

### aM, gG fuse cartridge

| Type          | A    | B    | C    |
|---------------|------|------|------|
| 8.5 x 31.5 mm | 8.5  | 31.5 | 10.3 |
| 10.3 x 38 mm  | 10.3 | 38   | 10.5 |



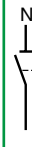
IEC EN 60947-3



MGN15707

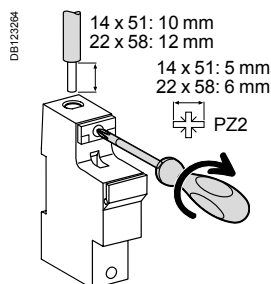
- SBI fuse holders provide overload and short-circuit protection.
  - They are used for industrial applications requiring a high breaking capacity.
  - They perform the isolation function and must not be used as switches.
  - They are equipped with an indicator light indicating blowing of the fuse cartridge: to be equipped with aM or gG (gL-gI) type fuse cartridge without striker.
- The general purpose fuse (gG fuse) provides overload and short-circuit protection. The fuse for motor application (**aM fuse**) only provides short-circuit protection. It is used for protection of loads with a high peak current (motors, transformer primaries, etc.).

## Catalogue numbers

| Fuse cartridge                                                                      |            |                     |                             |        |          |          | SBI fuse holder                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|-------------------------------------------------------------------------------------|------------|---------------------|-----------------------------|--------|----------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|
| Type                                                                                |            |                     |                             |        |          |          | Network type                                                                        |                                                                                     |                                                                                       |                                                                                       |                   |
|  | Rating     | Voltage rating (Ue) | Short-circuit current (Isc) |        |          |          |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     |            |                     | aM                          | gG     | aM       | gG       | 1P                                                                                  | 1P+N <sup>(1)</sup>                                                                 | 2P                                                                                    | 3P                                                                                    |                   |
|                                                                                     |            |                     |                             |        |          |          |  |  |  |  |                   |
|                                                                                     | 14 x 51 mm | 10 A                | 690 V CA                    | 120 kA | 120 kA   | DF2EA10  | DF2EN10                                                                             | 3 modules of 9 mm                                                                   | 6 modules of 9 mm                                                                     | 6 modules of 9 mm                                                                     | 9 modules of 9 mm |
|                                                                                     |            | 12 A                | 690 V CA                    | 120 kA | -        | DF2EA12  | -                                                                                   |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     |            | 16 A                | 690 V CA                    | 120 kA | 120 kA   | DF2EA16  | DF2EN16                                                                             |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     |            | 20 A                | 690 V CA                    | 120 kA | 120 kA   | DF2EA20  | DF2EN20                                                                             |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     |            | 25 A                | 690 V CA                    | 120 kA | 120 kA   | DF2EA25  | DF2EN25                                                                             |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     |            | 32 A                | 500 V CA                    | 120 kA | 120 kA   | DF2EA32  | DF2EN32                                                                             |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     |            | 40 A                | 500 V CA                    | 120 kA | 120 kA   | DF2EA40  | DF2EN40                                                                             |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     | 50 A       | 400 V CA            | 120 kA                      | 120 kA | DF2EA50  | DF2EN50  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
| 22 x 58 mm                                                                          | 32 A       | 690 V CA            | 80 kA                       | 80 kA  | DF2FA32  | DF2FN32  | 4 modules of 9 mm                                                                   | 88 modules of 9 mm                                                                  | 8 modules of 9 mm                                                                     | 12 modules of 9 mm                                                                    |                   |
|                                                                                     | 40 A       | 690 V CA            | 80 kA                       | 80 kA  | DF2FA40  | DF2FN40  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     | 50 A       | 690 V CA            | 80 kA                       | 80 kA  | DF2FA50  | DF2FN50  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     | 63 A       | 690 V CA            | 80 kA                       | 80 kA  | DF2FA63  | DF2FN63  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     | 80 A       | 690 V CA            | 80 kA                       | 80 kA  | DF2FA80  | DF2FN80  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     | 100 A      | 400 V CA            | 120 kA                      | 120 kA | DF2FA100 | DF2FN100 |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     | 125 A      | 400 V CA            | 120 kA                      | -      | DF2FA125 | -        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                   |
|                                                                                     |            |                     |                             |        |          |          | Operating frequency: 50/60 Hz                                                       |                                                                                     |                                                                                       |                                                                                       |                   |

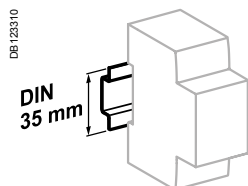
(1) The neutral pole comes equipped with a locked tube.

## Connection

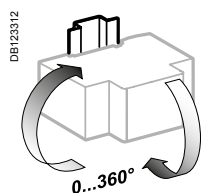


| Type of fuse cartridge | Tightening torque | Copper cables                                                                                   |                                                                                                 | Multi-cables terminal                                                                             |                                                                                                   |
|------------------------|-------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                        |                   | Rigid                                                                                           | Flexible or with ferrule                                                                        | Rigid cables                                                                                      | Flexible cables                                                                                   |
| 14 x 51 mm             | 3.5 N.m           | <br>DB123294 | <br>DB123294 | <br>DB118787 | <br>DB118787 |
| 22 x 58 mm             | 3.5 N.m           |                                                                                                 |                                                                                                 |                                                                                                   |                                                                                                   |
|                        |                   | 2.5 to 25 mm <sup>2</sup>                                                                       | 2.5 to 25 mm <sup>2</sup>                                                                       | 2.5 to 10 mm <sup>2</sup>                                                                         | 2.5 to 10 mm <sup>2</sup>                                                                         |
|                        |                   | 2.5 to 35 mm <sup>2</sup>                                                                       | 2.5 to 35 mm <sup>2</sup>                                                                       | 2.5 to 25 mm <sup>2</sup>                                                                         | 2.5 to 16 mm <sup>2</sup>                                                                         |

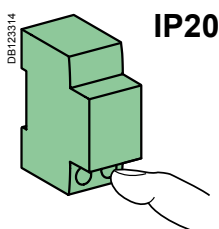
# SBI fuse holders with indicator light (cont.)



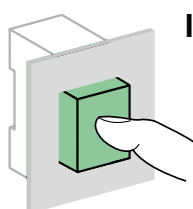
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

## Technical data

### Main characteristics

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Insulation voltage (Ui) | 690 V                                                                    |
| Utilization category    | AC20B isolation by switching the drawer, must not be operated under load |

### Additional characteristics

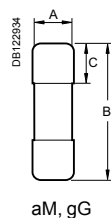
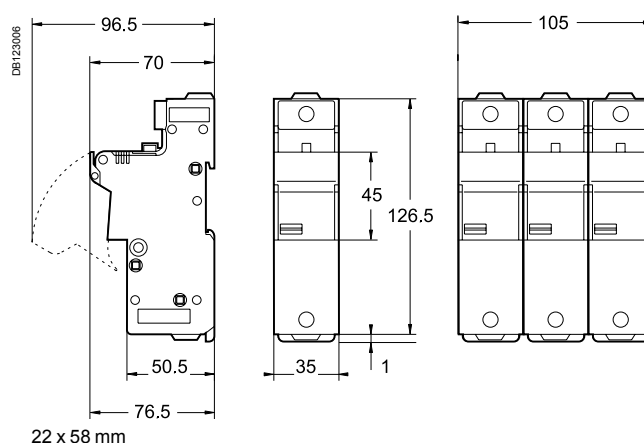
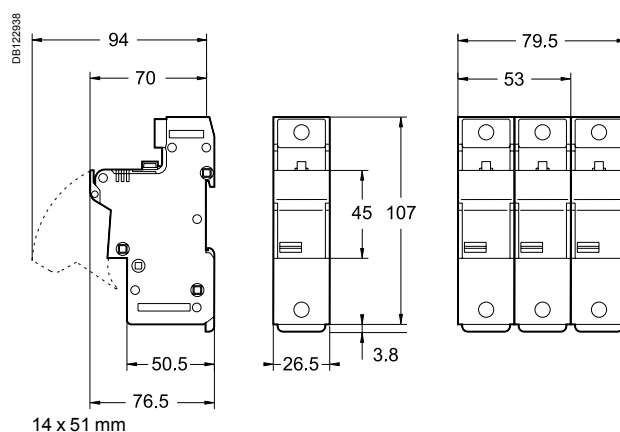
|                              |                              |      |
|------------------------------|------------------------------|------|
| Degree of protection         | Device only                  | IP20 |
|                              | Device in modular enclosure  | IP40 |
| Operating temperature        | -20°C to +60°C               |      |
| Storage temperature          | -40°C to +80°C               |      |
| Cartridge blowing signalling | By indicator light ON (neon) |      |

Maximum permissible characteristics of the fuse cartridges:

| Fuse cartridge type |    | Ith   | Pmax* |
|---------------------|----|-------|-------|
| 14 x 51 mm          | aM | 50 A  | 3 W   |
|                     | gG | 50 A  | 5 W   |
| 22 x 58 mm          | aM | 125 A | 9.5 W |
|                     | gG | 100 A | 9.5 W |

\*Pmax: maximum dissipated power per fuse cartridge.

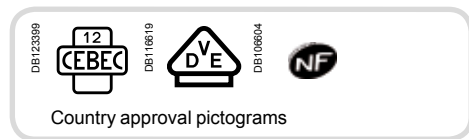
## Dimensions (mm)



aM, gG

### aM, gG fuse cartridge

| Type       | A    | B  | C    |
|------------|------|----|------|
| 14 x 51 mm | 14.3 | 51 | 13.8 |
| 22 x 58 mm | 22.2 | 58 | 16.2 |



EN 61095, IEC 1095

## iCT contactors are available in two versions:

- Contactors without manually-operated
- Contactors with manually-operated.

The breadth of the iCT contactor range satisfies most application cases.



Manual control

## ■ iCT contactors can be used to remote control applications in alternative networks:

- lighting, heating, ventilation, roller blinds, sanitary hot water
- mechanical ventilation systems, etc
- load-shedding of non-priority circuits

PB100115-39

■ Insulated terminals IP20

■ Large circuit labeling area

■ Consistent with the entire Acti 9 offer and with all types of lighting

■ Minimum noise

■ Mechanical contact position indicator

■ Manually-operated contactors have a 4-position selector switch on their front face:

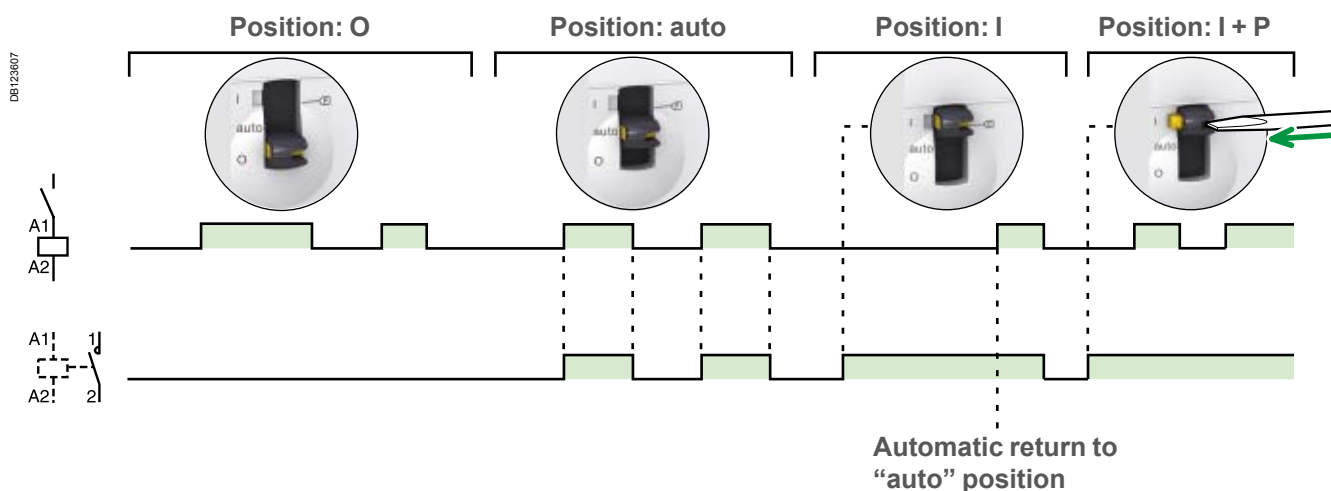
- automatic operating mode
- temporary "ON" override
- permanent "ON" override: used to lock the contactor in the ON position during installation maintenance
- shutdown

## Catalogue numbers

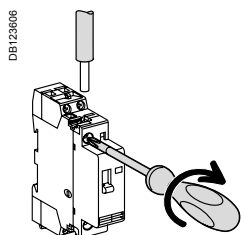
| iCT contactors - 50 Hz |                    |             |                                       |                |                 |                       |
|------------------------|--------------------|-------------|---------------------------------------|----------------|-----------------|-----------------------|
| Type                   |                    |             |                                       |                |                 | Width in 9 mm modules |
| <b>1P</b>              | <b>Rating (In)</b> |             | <b>Control voltage (V AC) (50 Hz)</b> | <b>Contact</b> |                 |                       |
|                        | <b>AC7a</b>        | <b>AC7b</b> |                                       |                |                 |                       |
|                        | 25 A               | 8.5 A       | 230...240                             | 1NO            | <b>A9C20731</b> | 2                     |
| <b>2P</b>              |                    |             |                                       |                |                 |                       |
|                        | 16 A               | 6 A         | 230...240                             | 2NO            | <b>A9C22712</b> | 2                     |
|                        | 25 A               | 8.5 A       | 230...240                             | 2NO            | <b>A9C20732</b> | 2                     |
|                        | 40 A               | 15 A        | 220...240                             | 2NO            | <b>A9C20842</b> | 4                     |
| <b>4P</b>              |                    |             |                                       |                |                 |                       |
|                        | 25 A               | 8.5 A       | 220...240                             | 4NO            | <b>A9C20834</b> | 4                     |

| iCT manual control contactor 50 Hz |                    |             |                                          |                |                 |                       |
|------------------------------------|--------------------|-------------|------------------------------------------|----------------|-----------------|-----------------------|
| Type                               |                    |             |                                          |                |                 | Width in 9 mm modules |
| <b>2P</b>                          | <b>Rating (In)</b> |             | <b>Control voltage (V AC) (50/60 Hz)</b> | <b>Contact</b> |                 |                       |
|                                    | <b>AC7a</b>        | <b>AC7b</b> |                                          |                |                 |                       |
|                                    | 25 A               | 8.5 A       | 230...240                                | 2NO            | <b>A9C21732</b> | 2                     |
| <b>3P</b>                          |                    |             |                                          |                |                 |                       |
|                                    | 25 A               | 8,5 A       | 220...240                                | 3NO            | <b>A9C21833</b> | 4                     |
|                                    |                    |             |                                          |                |                 |                       |
| <b>4P</b>                          |                    |             |                                          |                |                 |                       |
|                                    | 25 A               | 8,5 A       | 220...240                                | 4NO            | <b>A9C21834</b> | 4                     |
|                                    |                    |             |                                          |                |                 |                       |

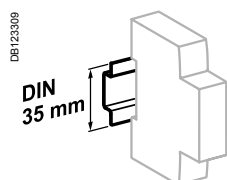
## Operation (Manual control contactor)



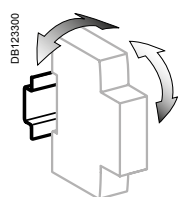
## Connection



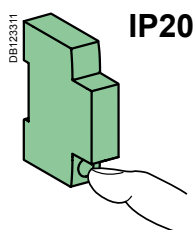
| Type |           | Rating      | Lenght tripping | Circuit | Tightening torque | Copper cables                                                                       |                                                                                     |
|------|-----------|-------------|-----------------|---------|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|      |           |             |                 |         |                   | Rigid                                                                               | Flexible or with ferrule                                                            |
| iCT  | PZ1: 4 mm | 16 - 40 A   | 9 mm            | Control | 0.8 N.m           |  |  |
|      |           | 16 and 25 A | 9 mm            | Power   |                   |                                                                                     |                                                                                     |
|      |           | PZ2: 6 mm   | 40 A            | 14 mm   |                   | 3.5 N.m                                                                             | 1.5 to 6 mm <sup>2</sup>                                                            |
|      |           |             |                 |         |                   | 6 to 25 mm <sup>2</sup>                                                             | 6 to 16 mm <sup>2</sup>                                                             |



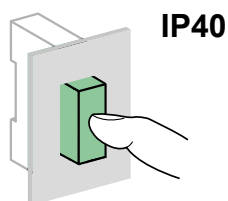
Clip on DIN rail 35 mm.



± 30° vertical.



IP20



IP40

## Technical data

### Power circuit

|                     |                |          |
|---------------------|----------------|----------|
| Voltage rating (Ue) | 1P, 2P         | 250 V AC |
|                     | 3P, 4P         | 400 V AC |
| Frequency           | 50 Hz or 60 Hz |          |

### Endurance (O-C)

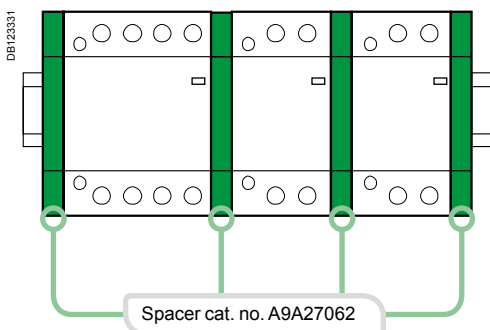
|                                             |                |
|---------------------------------------------|----------------|
| Electrical                                  | 100,000 cycles |
| Maximum number of switching operation a day | 100            |

### Additional characteristics

|                                        |                                              |      |
|----------------------------------------|----------------------------------------------|------|
| Insulation voltage (Ui)                | 500 V AC                                     |      |
| Pollution degree                       | 2                                            |      |
| Rated impulse withstand voltage (Uimp) | 2.5 kV (4 kV for 12/24/48 V AC)              |      |
| Degree of protection (IEC 60529)       | Device only                                  | IP20 |
|                                        | Device in modular enclosure                  | IP40 |
| Operating temperature                  | -5°C to +60°C <sup>(1)</sup>                 |      |
| Storage temperature                    | -40°C to +70°C                               |      |
| Tropicalization (IEC 60068-1)          | Treatment 2 (relative humidity 95 % at 55°C) |      |

The product control conforms to the SELV (safety extra low voltage) requirements

(1) In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50°C and 60°C, it is necessary to use a spacer, cat. no. A9A27062, between each contactor



## Mounting accessories

|                                           |                    |                 |
|-------------------------------------------|--------------------|-----------------|
| Sealable screw shields for top and bottom | 3P, 4P 25 A        | <b>A9A15921</b> |
|                                           | 2P 40 A            | <b>A9A15922</b> |
| 9 mm spacer                               | <b>A9A27062</b>    |                 |
| Clip-on terminal markers                  | <b>See page 97</b> |                 |

| Security                 |                                                                                                                               |                                                                                                                               |                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessories              | Sealable screw shields                                                                                                        |                                                                                                                               | Spacer                                                                                                                                                                                                                                          |
|                          | <div><div>PB104485-15</div><div></div></div> | <div><div>PB104486-15</div><div></div></div> | <div><div>PB104483-40</div><div></div></div>                                                                                                                 |
| Function                 |                                                                                                                               |                                                                                                                               |                                                                                                                                                                                                                                                 |
|                          | <div>■ Designed to cover terminals to avoid contact with device screws.</div> <div>■ Allow sealing</div>                      |                                                                                                                               | <div>■ Required to reduce temperature rise of modular devices installed side by side.</div> <div>■ Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors).</div> |
|                          | <div>■ For iCT:<br/>3P, 4P - 25 A</div>                                                                                       | <div>■ For iCT:<br/>2P - 40 A</div>                                                                                           |                                                                                                                                                                                                                                                 |
| Use                      |                                                                                                                               |                                                                                                                               |                                                                                                                                                                                                                                                 |
|                          | <div>■ Bag of 10 upstream/10 downstream</div>                                                                                 |                                                                                                                               | <div>■ Bag of 5</div>                                                                                                                                                                                                                           |
| Catalogue numbers        | A9A15921                                                                                                                      | A9A15922                                                                                                                      | A9A27062                                                                                                                                                                                                                                        |
| Technical specifications |                                                                                                                               |                                                                                                                               |                                                                                                                                                                                                                                                 |
| Width in 9 mm modules    | 4                                                                                                                             | 4                                                                                                                             | 1                                                                                                                                                                                                                                               |
| Number of poles          | 3P, 4P                                                                                                                        | 2P                                                                                                                            | —                                                                                                                                                                                                                                               |

## Consumption

### iCT contactors - 50 Hz

#### Type

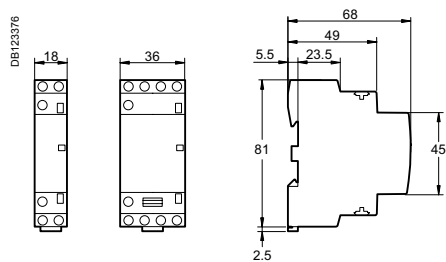
| 1P | Rating (In) |       | Control voltage<br>(V AC) (50 Hz) | Consumption |        | Max.<br>power |          |
|----|-------------|-------|-----------------------------------|-------------|--------|---------------|----------|
|    | AC7a        | AC7b  |                                   | Holding     | Inrush |               |          |
|    | 25 A        | 8.5 A | 230...240                         | 2.7 VA      | 9.2 VA | 1.2 W         | A9C20731 |
| 2P | 16 A        | 5 A   | 230...240                         | 2.7 VA      | 9.2 VA | 1.2 W         | A9C22712 |
|    | 25 A        | 8.5 A | 230...240                         | 3.8 VA      | 15 VA  | 1.3 W         | A9C20732 |
|    | 40 A        | 15 A  | 220...240                         | 4.6 VA      | 34 VA  | 1.6 W         | A9C20842 |
| 4P | 25 A        | 8.5 A | 220...240                         | 4.6 VA      | 34 VA  | 1.6 W         | A9C20834 |

### iCT manual control contactor 50 Hz

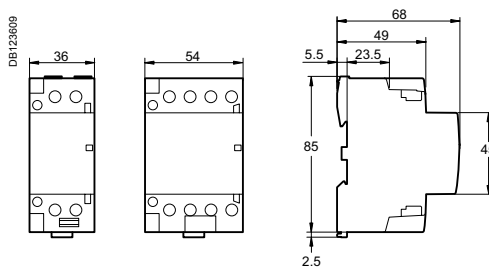
#### Type

| 2P | Rating (In) |       | Control voltage<br>(V AC) (50 Hz) | Consumption |        | Max.<br>power |          |
|----|-------------|-------|-----------------------------------|-------------|--------|---------------|----------|
|    | AC7a        | AC7b  |                                   | Holding     | Inrush |               |          |
|    | 25 A        | 8.5 A | 220                               | 2.7 VA      | 9.2 VA | 1.2 W         | A9C21732 |
| 3P | 25 A        | 8.5 A | 220...240                         | 4.6 VA      | 34 VA  | 1.6 W         | A9C21833 |
| 4P | 25 A        | 8.5 A | 220...240                         | 4.6 VA      | 34 VA  | 1.6 W         | A9C21834 |

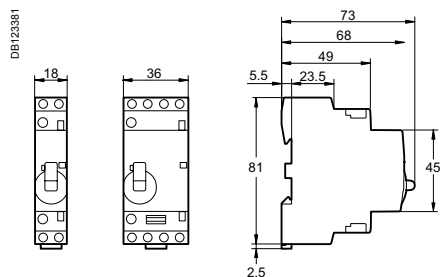
## Dimensions (mm)



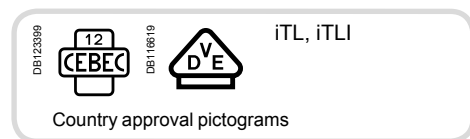
iCT 16/25 A



iCT 40 A



iCT manual control contactor 25 A

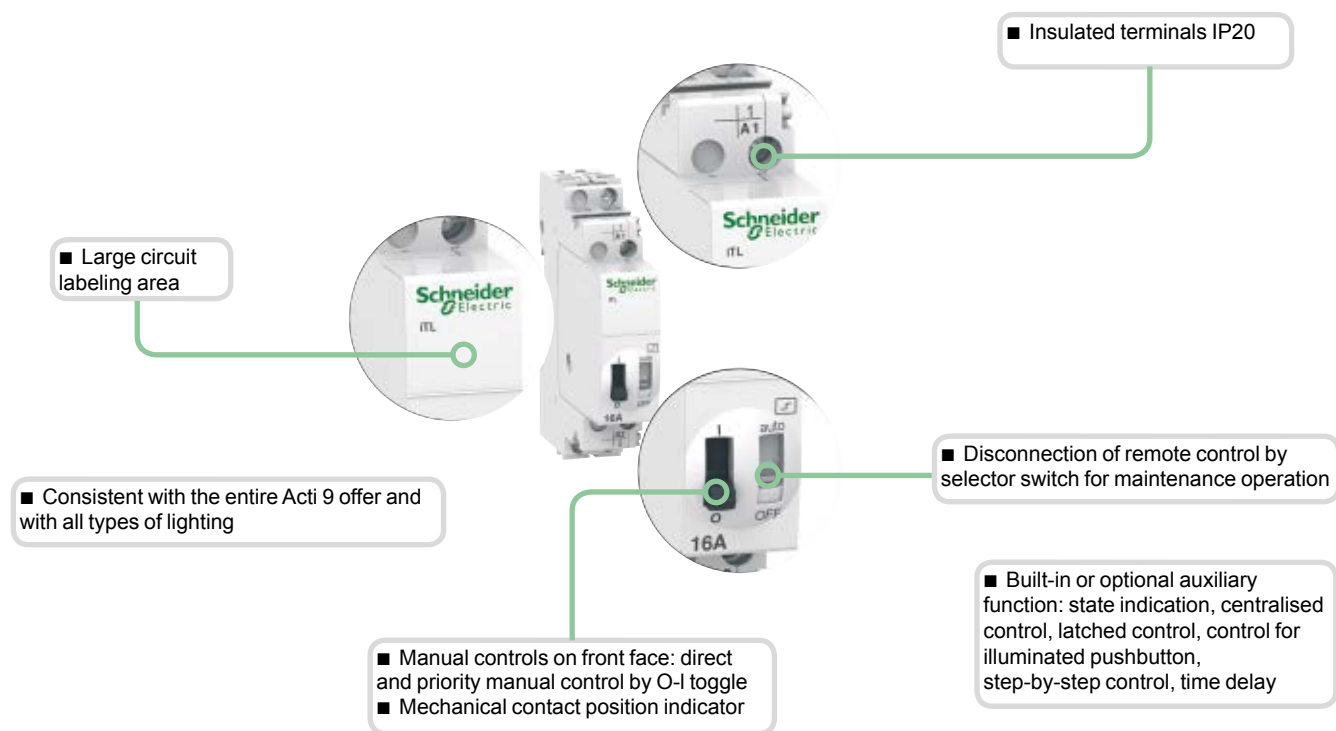


IEC/EN 60669-2-2



## Impulse relays are used:

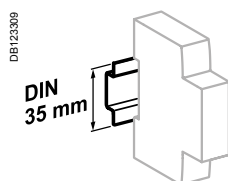
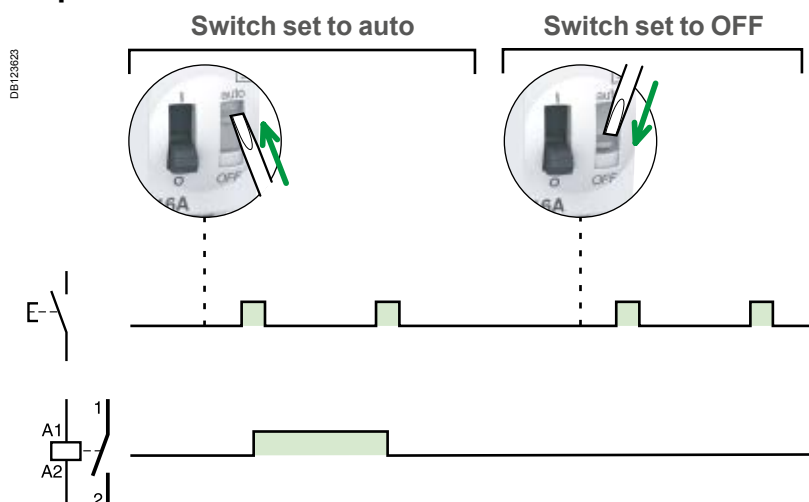
- Closing of the impulse relay pole(s) is triggered by an impulse on the coil.
- Having two stable mechanical positions, the pole(s) will be opened by the next impulse. Each impulse received by the coil reverses the position of the pole(s).
- Can be controlled by an unlimited number of pushbuttons.
- Zero energy consumption.



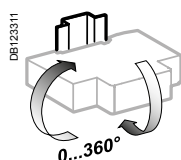
## Catalogue numbers

| iTL impulse relays    |                      |     |          |          |
|-----------------------|----------------------|-----|----------|----------|
| Type                  | 1P                   |     | 2P       |          |
|                       |                      |     |          |          |
|                       | 1 NO                 |     | 2 NO     |          |
| Rating (In)           | Control voltage (Uc) |     |          |          |
|                       | (V AC) (50/60 Hz)    |     | (V DC)   |          |
| 16 A                  | 230...240            | 110 | A9C30811 | A9C30812 |
| Width in 9 mm modules |                      |     | 2        | 2        |

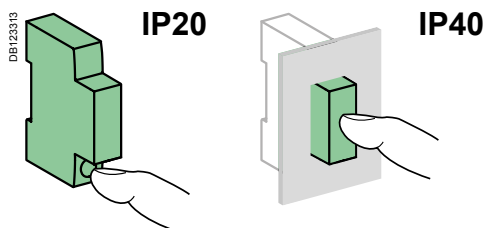
## Operation



Clip on DIN rail 35 mm.



Indifferent position of installation.



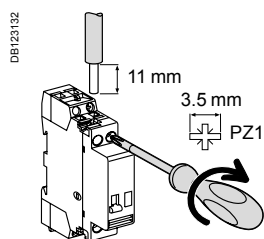
## Technical data

| Control circuit                             |                             |                                                     |
|---------------------------------------------|-----------------------------|-----------------------------------------------------|
| Control voltage (Uc)                        | Tolerance at 50 Hz          | +6 %, -15 %                                         |
|                                             | Tolerance at 60 Hz          | ±6 %, -                                             |
|                                             | Tolerance V DC              | +6 %, -10 %                                         |
| Dissipated power (during the impulse)       |                             | 1, 2, 3P: 19 VA                                     |
|                                             |                             | 4P: 38 VA                                           |
| Illuminated PB control                      |                             | Max. current 3 mA                                   |
| Operating threshold                         |                             | Min. 85 % of Un in conformance with IEC/EN60669-2-2 |
| Duration of the control order               |                             | 50 ms to 1 s<br>(200 ms recommended)                |
| Response time                               |                             | 50 ms                                               |
| Power circuit                               |                             |                                                     |
| Voltage rating (Ue)                         | 1P, 2P                      | 24 ...250 V AC                                      |
| Frequency                                   |                             | 50 Hz or 60 Hz                                      |
| Maximum number of operations per minute     |                             | 5                                                   |
| Maximum number of switching operation a day |                             | 100                                                 |
| Additional characteristics                  |                             |                                                     |
| Insulation voltage (Ui)                     |                             | 440 V AC                                            |
| Pollution degree                            |                             | 3                                                   |
| Rated impulse withstand voltage (Uimp)      |                             | 6 kV                                                |
| Overvoltage category                        |                             | IV                                                  |
| Endurance (O-C)                             |                             |                                                     |
| Electrical                                  |                             | 200,000 cycles (AC21)                               |
|                                             |                             | 100,000 cycles (AC22)                               |
| Other characteristics                       |                             |                                                     |
| Degree of protection (IEC 60529)            | Device only                 | IP20                                                |
|                                             | Device in modular enclosure | IP40<br>Insulation class II                         |
| Operating temperature                       |                             | -20°C to +50°C                                      |
| Storage temperature                         |                             | -40°C to +70°C                                      |
| Tropicalization (IEC 60068-1)               |                             | Treatment 2<br>(relative humidity 95 % at 55°C)     |

## Mounting accessories

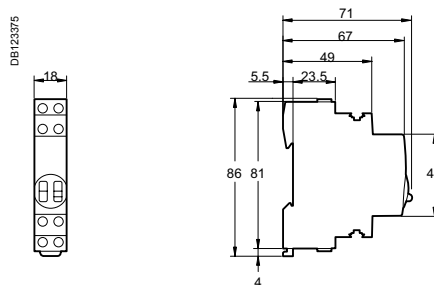
|                          |                    |
|--------------------------|--------------------|
| 9 mm spacer              | <b>A9A27062</b>    |
| Clip-on terminal markers | <b>See page 97</b> |

## Connection



| Type | Rating | Circuit | Tightening torque | Copper cables                                        |                                                    |
|------|--------|---------|-------------------|------------------------------------------------------|----------------------------------------------------|
|      |        |         |                   | Rigid or with ferrule                                | Flexible or with ferrule                           |
| iTL  | 16 A   | Control | 1 N.m             | DB123945                                             | DB123553                                           |
|      |        | Power   |                   | 0.5 to 4 mm <sup>2</sup><br>1.5 to 4 mm <sup>2</sup> | 1 to 4 mm <sup>2</sup><br>1.5 to 4 mm <sup>2</sup> |

## Dimensions (mm)



iTL

## Security

### Accessories

### Spacer



### Function

- Required to reduce temperature rise of modular devices installed side by side.
- Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors).

### Catalogue numbers

A9A27062

### Technical specifications

Width in 9 mm modules

1

Time delay relay is used in service sector and industrial buildings for small automatic control systems: ventilation, heating, animation, roller blind servo controls, escalators, pumps, lighting, signalling, monitoring, etc.



## Time delay relays



### iRTA

- Delays energizing of a load

## ^ Time delay

iRLI relay is used to relay ON or OFF information to the auxiliary circuits and actuate low-power loads



## Changeover relays



### iRLI Changeover

- Relays ON or OFF information to the auxiliary circuits
- Actuates low-power loads

## ^ Relaying and control

Control relays monitor electrical parameters and indicate when they are exceeded



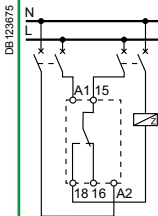
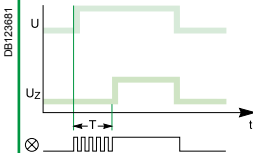
## Control relays

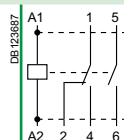


### iRCP Phase control

- Monitors the order and asymmetry of phases and the presence of voltage on the 3 phases of a three-phase circuit (power supply of a motor, etc.)

## ^ Monitoring

|                                                   |                                                                                                                                                                                                                                                                                 |                                                                   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|                                                   |                                                                                                                                                                                                                                                                                 | Time delay relays                                                 |
|                                                   |                                                                                                                                                                                                                                                                                 | iRTA                                                              |
| Type                                              | <div>PE111581-35</div> <div></div>                                                                                                                                                             |                                                                   |
| Function                                          | ■ Delays energizing of a load                                                                                                                                                                                                                                                   |                                                                   |
| Wiring diagrams                                   | <div>DB123875</div> <div></div>                                                                                                                                                               |                                                                   |
| Use                                               | <div>DB123881</div> <div></div> <div>■ The single time delay cycle starts at switching on of the iRTA relay power supply</div> <div>■ The load is energized at the end of time delay T</div> |                                                                   |
| Catalogue numbers                                 | A9E16065                                                                                                                                                                                                                                                                        |                                                                   |
| Technical specifications                          |                                                                                                                                                                                                                                                                                 |                                                                   |
| Control and power supply voltage (Uc)             | V AC                                                                                                                                                                                                                                                                            | 24...240, ±10 %                                                   |
|                                                   | V DC                                                                                                                                                                                                                                                                            | 24, ±10 %                                                         |
| Operating frequency                               | Hz                                                                                                                                                                                                                                                                              | 50/60                                                             |
| Time delay range                                  |                                                                                                                                                                                                                                                                                 | 0.1 s to 100 h                                                    |
| Precision                                         |                                                                                                                                                                                                                                                                                 | ±10 % of full scale                                               |
| Minimum duration of control impulse               |                                                                                                                                                                                                                                                                                 | 100 ms                                                            |
| Insensitive to brownouts                          |                                                                                                                                                                                                                                                                                 | ≤ 20 ms                                                           |
| Max. resetting time per voltage interruption      |                                                                                                                                                                                                                                                                                 | 100 ms                                                            |
| Accuracy of repetition                            |                                                                                                                                                                                                                                                                                 | ±0.5 % at constant parameters                                     |
| Changeover contact (cadmium free)                 | Mini                                                                                                                                                                                                                                                                            | Rating 10 mA/5 V DC                                               |
|                                                   | Maxi                                                                                                                                                                                                                                                                            | Rating 8 A/250 V AC/DC                                            |
| Endurance                                         | Mechanical                                                                                                                                                                                                                                                                      | > 5 x 10 <sup>6</sup> switching operations                        |
|                                                   | Electrical                                                                                                                                                                                                                                                                      | > 10 <sup>5</sup> switching operations (utilization category AC1) |
| Display of contact status by green indicator lamp |                                                                                                                                                                                                                                                                                 | Flashing during time delay                                        |
| Degree of protection                              | Device only                                                                                                                                                                                                                                                                     | IP20                                                              |
| Connection by tunnel terminals                    | Without ferrule                                                                                                                                                                                                                                                                 | 2 x 2.5 mm <sup>2</sup> single-strand                             |
|                                                   | With ferrule                                                                                                                                                                                                                                                                    | 2 x 1.5 mm <sup>2</sup> multi-strand                              |
| Width in 9-mm modules                             |                                                                                                                                                                                                                                                                                 | 2                                                                 |
| Operating temperature                             | °C                                                                                                                                                                                                                                                                              | -5 ... +55                                                        |
| Storage temperature                               | °C                                                                                                                                                                                                                                                                              | -40 ... +70                                                       |

|                                |                                                                                                           |                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                |                                                                                                           | Changeover and extension relays                                                                                     |
|                                |                                                                                                           | iRLI                                                                                                                |
| Type                           | Changeover relay                                                                                          |                                                                                                                     |
|                                |                                                                                                           | <div>PE107108-35</div> <div></div> |
| Standard                       | IEC/EN 61810-1 and NF C 45-250                                                                            |                                                                                                                     |
| Function                       | <div>■ Relaying of ON or OFF information to the auxiliary circuits and actuation of low-power loads</div> |                                                                                                                     |
| Wiring diagrams                |                                                                                                           |                                                                                                                     |
|                                |                                                                                                           | <div>DE123687</div> <div></div>   |
| Use                            | <div>■ The iRLI relay contains 1 changeover contact (O-C) and 1 normally open contact (N/O)</div>         |                                                                                                                     |
| Catalogue numbers              | A9E15535                                                                                                  |                                                                                                                     |
| Technical specifications       |                                                                                                           |                                                                                                                     |
| Control voltage (Uc)           | V AC                                                                                                      | 230 ...240                                                                                                          |
| Voltage rating (Ue)            | V AC                                                                                                      | 230                                                                                                                 |
| Insulation voltage (Ui)        | V AC                                                                                                      | 250                                                                                                                 |
| Rating (In)                    | A                                                                                                         | 10, cos φ = 1                                                                                                       |
| Operating frequency            | Hz                                                                                                        | 50/60                                                                                                               |
| Inrush and holding power       |                                                                                                           | 4 VA                                                                                                                |
| Endurance                      | Electrical                                                                                                | 100,000 cycles AC21 (cos φ = 1)                                                                                     |
| Direct front face control      | Power                                                                                                     | By push button                                                                                                      |
|                                | Coil                                                                                                      | By selector switch (disconnection)                                                                                  |
|                                |                                                                                                           |                                                                                                                     |
| Position indicator             |                                                                                                           | Mechanical indicator                                                                                                |
| Marking                        |                                                                                                           | Clip-on markers on the front panel                                                                                  |
| Degree of protection           | Device only                                                                                               | IP20                                                                                                                |
| Connection by tunnel terminals |                                                                                                           | 0.5 x 6 mm <sup>2</sup>                                                                                             |
| Width in 9-mm modules          |                                                                                                           | 2                                                                                                                   |
| Operating temperature          | °C                                                                                                        | -5 ... +55                                                                                                          |
| Storage temperature            | °C                                                                                                        | -40 ... +70                                                                                                         |

## Control relays

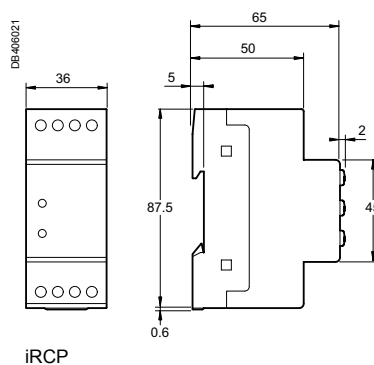
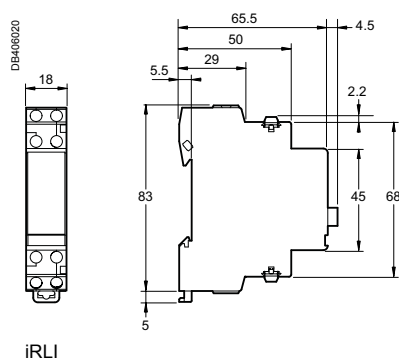
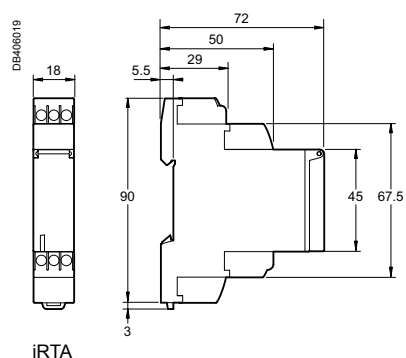
| Control relays                             |             | iRCP                                                                                                                                                                    |
|--------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                                       |             | Phase control                                                                                                                                                           |
| Function                                   |             | <p>■ Monitors phases and the presence of voltage on the 3 phases of a three-phase circuit (power supply of a motor, etc.). It indicates any phase loss or inversion</p> |
| Wiring diagrams                            |             |                                                                                                                                                                         |
| Catalogue number                           |             | A9E21180                                                                                                                                                                |
| <b>Common technical specifications</b>     |             |                                                                                                                                                                         |
| Supply voltage (Uc)                        | V AC        | 400, ±15 %                                                                                                                                                              |
| Frequency                                  | Hz          | 50/60                                                                                                                                                                   |
| Parameter setting                          |             | ■ On the front panel, by direct scale, using a screwdriver                                                                                                              |
| Precision of display                       |             | ±10 % of full scale                                                                                                                                                     |
| Output by changeover contact               |             | 8 A under 250 V AC (cos φ = 1)                                                                                                                                          |
| Indications by LED                         | Green       | Voltage presence                                                                                                                                                        |
|                                            | Red         | Fault                                                                                                                                                                   |
| Consumption                                | VA          | 3                                                                                                                                                                       |
| Dissipated power                           | W           | 3 (total on the 3 phases)                                                                                                                                               |
| Degree of protection                       | Device only | IP20                                                                                                                                                                    |
| Connection by tunnel terminals             | Rigid cable | 1.5 x 6 mm <sup>2</sup>                                                                                                                                                 |
| Width in 9-mm modules                      |             | 4                                                                                                                                                                       |
| Operating temperature                      | °C          | -5 ... +55                                                                                                                                                              |
| Storage temperature                        | °C          | -40 ... +80                                                                                                                                                             |
| <b>Particular technical specifications</b> |             |                                                                                                                                                                         |
|                                            |             | Setting of phase asymmetry threshold: 5 % to 2.5 % of 400 V                                                                                                             |
|                                            |             | Hysteresis: fixed, 5 % of asymmetry threshold                                                                                                                           |
|                                            |             | Monitoring of direction of phase rotation                                                                                                                               |
|                                            |             | Monitoring of presence of the 3 phases                                                                                                                                  |
|                                            |             | Fail-safe contact                                                                                                                                                       |
|                                            |             | De-energized                                                                                                                                                            |
|                                            |             | Energized with fault                                                                                                                                                    |
|                                            |             | Energized without fault                                                                                                                                                 |
|                                            |             | Time delay on tripping: 0.3 s                                                                                                                                           |

## Technical data

### Weight (g)

| Relays |     |
|--------|-----|
| Type   |     |
| iRTA   | 65  |
| iRLI   | 112 |
| iRCP   | 210 |

## Dimensions (mm)

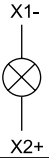


## IEC 60947-5-1

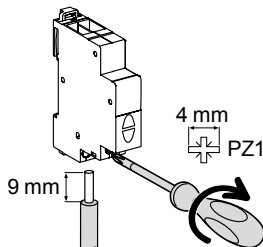
- iLL indicator, light up to indicate that a voltage is present.

## Catalogue numbers

### iLL indicator light

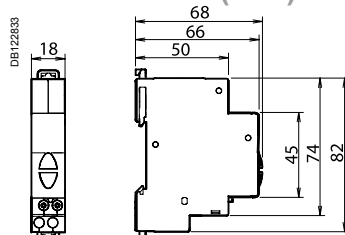
|                       |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
|                       |  |
| Diagram               |  |
| Colour                | Red                                                                                 |
| Cat. no.              | A9E18320                                                                            |
| 110...230 V AC        |                                                                                     |
| 110...130 V DC        |                                                                                     |
| Width in 9 mm modules | 2                                                                                   |

## Connection

|  | Tightening torque | Copper cables                                                                                                                                     |                                                                                                                                                   |
|-------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     |                   | Rigid                                                                                                                                             | Flexible or with ferrule                                                                                                                          |
|                                                                                     | 1 N.m             | <br>0.5 mm <sup>2</sup> min.<br>2 x 2.5 mm <sup>2</sup> max. | <br>0.5 mm <sup>2</sup> min.<br>2 x 2.5 mm <sup>2</sup> max. |

- Phase-separated wall that can be divided to allow the teeth of all types of comb busbar to pass through.
- Staggered terminals to simplify connection.

## Dimensions (mm)



## Technical data

| Main characteristics       |                                                                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pollution degree           | 3                                                                                                                                                                    |
| Power circuit              |                                                                                                                                                                      |
| Operating frequency        | 50...60 Hz                                                                                                                                                           |
| Flashing frequency         | 2 Hz                                                                                                                                                                 |
| Additional characteristics |                                                                                                                                                                      |
| Operating temperature      | -35°C... +70°C                                                                                                                                                       |
| Storage temperature        | -40°C... +80°C                                                                                                                                                       |
| Tropicalization            | Treatment 2 (relative humidity 95 % at 55°C)                                                                                                                         |
| LED indicator light        | Consumption per indicator light: 0.3 W<br>Service life: 100,000 hours of constant lighting efficiency<br>Maintenance-free indicator light (non-interchangeable LEDs) |



ISO

**ISO**

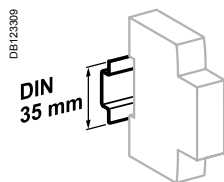
Audible indication in housing and the tertiary sector.

**Catalogue number**

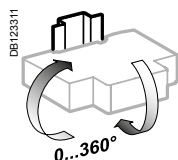
| Bell and buzzer     |                 |            |                       |
|---------------------|-----------------|------------|-----------------------|
| Type                |                 |            | Width in 9 mm modules |
| DB123820<br>        | <b>ISO bell</b> |            |                       |
|                     | Voltage (Ue)    | A9A15320   | 2                     |
| Operating frequency |                 | 50...60 Hz |                       |

**Connection**

| Tightening torque | Copper cables       |                          |
|-------------------|---------------------|--------------------------|
|                   | Rigid               | Flexible or with ferrule |
| DB123271<br>      | DB122945<br>        | DB122946<br>             |
| 1.3 N.m           | < 4 mm <sup>2</sup> | < 4 mm <sup>2</sup>      |



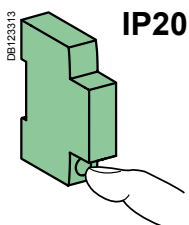
Clip on DIN rail 35 mm.



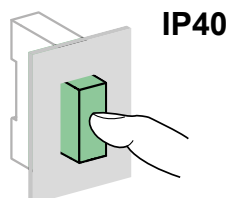
Indifferent position of installation.

**Technical data**

| Main characteristics                 |                             | ISO            |
|--------------------------------------|-----------------------------|----------------|
| Consumption                          | 220...240 V AC              | 5 VA           |
| Additional characteristics           |                             |                |
| Degree of protection (IEC 60529)     | Device only                 | IP40           |
|                                      | Device in modular enclosure | IP20           |
| Operating temperature                |                             | -10°C to +40°C |
| Storage temperature                  |                             | -25°C to +60°C |
| Sound level (at a distance of 60 cm) |                             | 80 dBA         |



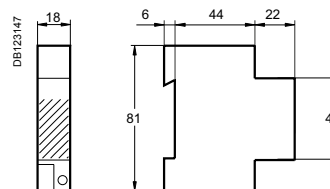
IP20



IP40

**Weight (g)**

| Bell and buzzer |    |
|-----------------|----|
| Type            |    |
| ISO             | 77 |

**Dimensions (mm)**

ISO bell



Country approval pictogram

PB107155-3/5



PB107155-3/5

**Bell transformers: EN/IEC 61558-2-8.****Safety transformers: EN/IEC 61558-2-6.**

Bell transformers and safety transformers allow for a very low voltage (ELV 8 V, 12 V or 24 V) to be obtained from a low voltage network (LV 230 V).

All Schneider Electric transformers are:

- Safe: primary and secondary circuits are perfectly insulated by each other
- Resistant to short-circuit currents thanks to the built-in device
- Class II with terminal shield (optional).

**Catalogue numbers****Bell transformer**

| Type       |       |                   |          | Width in 9 mm modules |
|------------|-------|-------------------|----------|-----------------------|
|            | Power | Secondary voltage |          |                       |
| E56760<br> | 8 VA  | 8-12 V AC         | A9A15216 | 4                     |
| E56761<br> | 25 VA | 12-24 V AC        | A9A15215 | 6                     |

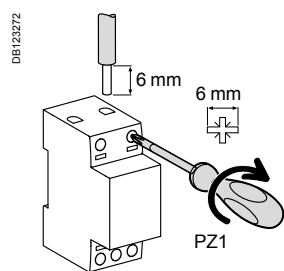
**Safety transformer**

| Type                |          |                   |          | Width in 9 mm modules |
|---------------------|----------|-------------------|----------|-----------------------|
|                     | Power    | Secondary voltage |          |                       |
| DB124154<br>        | 63 VA    | 12-24 V AC        | A9A15222 | 10                    |
| Operating frequency | 50/60 Hz |                   |          |                       |

**Terminal shield**

| Type |       | Width in 9 mm modules |
|------|-------|-----------------------|
|      | 15228 | 4                     |
|      | 15229 | 6                     |

## Connection

| Tightening torque                                                                             | Copper cables                                                                                   |                                                                                                 |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                               | Rigid                                                                                           | Flexible or with ferrule                                                                        |
| DB123272<br> | DB122946<br> | DB122946<br> |
| 0.5 N.m                                                                                       | < 2.5 mm <sup>2</sup>                                                                           | < 2.5 mm <sup>2</sup>                                                                           |

## Technical data

## Main characteristics

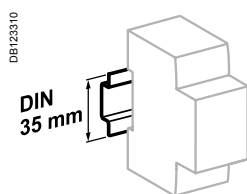
|                           |                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------|
| Primary voltage           | 230 V AC $\pm 10\%$                                                                           |
| Secondary voltage on load | For bell transformers 8-12-24 V AC $\pm 15\%$<br>For safety transformers 12-24 V AC $\pm 5\%$ |

| Transformer catalogue numbers | Rated secondary voltage | Off load voltage |
|-------------------------------|-------------------------|------------------|
| A9A15216                      | 8 V                     | 13 V             |
|                               | 12 V                    | 18 V             |
| A9A15215                      | 12 V                    | 16 V             |
|                               | 24 V                    | 32 V             |
| A9A15222                      | 12 V                    | 14 V             |
|                               | 24 V                    | 28 V             |

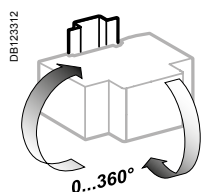
## Additional characteristics

|                       |                |                           |
|-----------------------|----------------|---------------------------|
| Degree of protection  | Device only    | IP20 with terminal shield |
| Operating temperature | -20°C to +55°C |                           |
| Storage temperature   | -25°C to +80°C |                           |

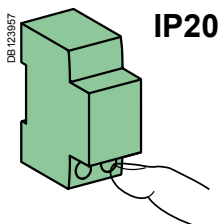
Note: Transformers have an off load operating voltage that is higher than the rated voltage. For loads that are sensitive to overloads (electro-magnetic circuits), the transformer must be made to operate at In. After operation of the protection device upon an overload, cut-off the power supply and let the transformer cool down before restart.



Clip on DIN rail 35 mm.



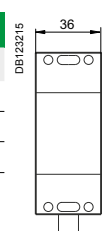
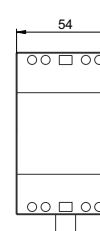
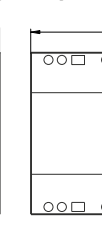
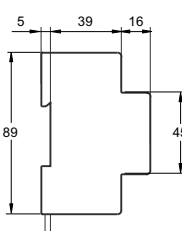
Bell transformer: indifferent position of installation.  
Safety transformer: vertical position.



## Weight (g)

| Type   | Cat. no. | Weight |
|--------|----------|--------|
| Bell   | A9A15215 | 633    |
|        | A9A15216 | 275    |
| Safety | A9A15222 | 1309   |

## Dimensions (mm)

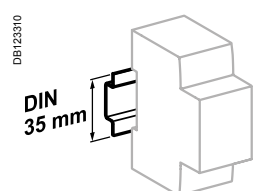
|                                                                                                 |                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| DB123215<br> |  |  |  |
| A9A15216                                                                                        | A9A15215                                                                            | A9A15222                                                                            |                                                                                       |

These power sockets allow low-voltage devices to be connected to the electrical network.

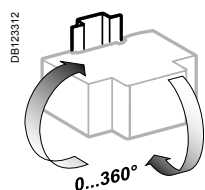
IEC 60884

## Catalogue numbers

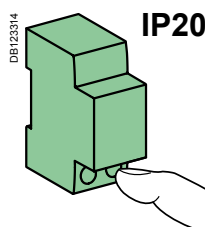
### iPC 16 A power sockets



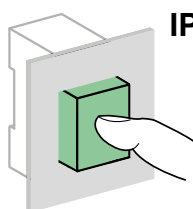
Clip on DIN rail 35 mm.



Indifferent position of installation.

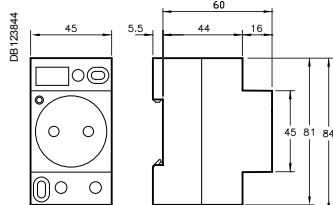


IP20

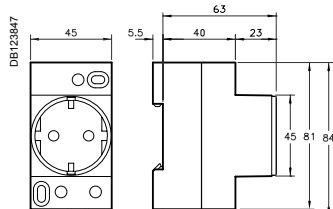


IP40

## Dimensions (mm)



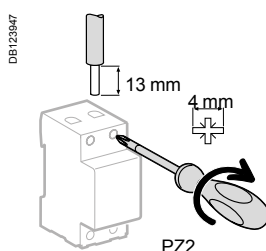
iPC 16 A NF standard



iPC 16 A VDE standard

|                       |                                                                   |                       |
|-----------------------|-------------------------------------------------------------------|-----------------------|
|                       |                                                                   |                       |
| Diagram               | DB106411                                                          | DB106412              |
| Approval pictogram    |                                                                   |                       |
| Type                  | Standard                                                          | Standard              |
| Color                 | White                                                             | White                 |
| Cover                 | With                                                              | Without               |
| Cat. no.              | A9A15306                                                          | A9A15310              |
| Standard              | NF C 61314, NBN C 61112<br>NF C 15100 with "baby safe" type cover | VDE 0620,<br>NEN 1020 |
| Width in 9-mm modules | 5                                                                 |                       |

## Connection



| Type     | Tightening torque | Copper cables |                          |
|----------|-------------------|---------------|--------------------------|
|          |                   | Rigid         | Flexible or with ferrule |
| iPC 16 A | 1.2 N.m           |               |                          |

## Technical data

| Main characteristics             |                             | iPC 16 A                                        |
|----------------------------------|-----------------------------|-------------------------------------------------|
| Voltage rating (Ue)              |                             | 250 V AC                                        |
| Additional characteristics       |                             |                                                 |
| Degree of protection (IEC 60529) | Device only                 | IP20                                            |
|                                  | Device in modular enclosure | IP40                                            |
| Operating temperature            |                             | -25°C to +70°C                                  |
| Storage temperature              |                             | -40°C to +80°C                                  |
| Tropicalization (IEC 60068-1)    |                             | Treatment 2 (relative humidity of 95 % at 55°C) |

## Weight (g)

| iPC power sockets |    |
|-------------------|----|
| Type              |    |
| iPC 16 A          | 98 |

## IEC 60669-1 and IEC 60947-5-1

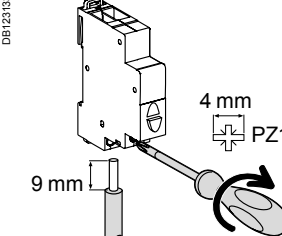
- iPB pushbutton are used to control electric circuits by means of pulses.

## Catalogue numbers

### iPB pushbuttons

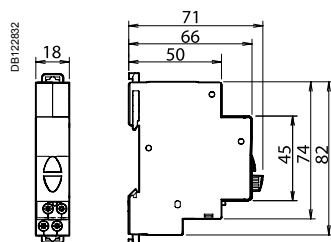
|                       |        |                       |                                                                                     |
|-----------------------|--------|-----------------------|-------------------------------------------------------------------------------------|
|                       |        | PB105259-40           |  |
| Diagram               |        | 1 NO<br>1<br>E--<br>2 |                                                                                     |
| Pushbutton            | Colour | Grey                  |                                                                                     |
| Cat. no.              |        | A9E18032              |                                                                                     |
| Width in 9 mm modules |        | 2                     |                                                                                     |

## Connection

|  | Tightening torque |  | Copper cables                                                                                                                                                 |                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     |                   |  | Rigid                                                                                                                                                         | Flexible or with ferrule                                                                                                                                      |
|                                                                                     | 1 N.m             |  | DB122946<br><br>0.5 mm <sup>2</sup> min.<br>2 x 2.5 mm <sup>2</sup> max. | DB122946<br><br>0.5 mm <sup>2</sup> min.<br>2 x 2.5 mm <sup>2</sup> max. |

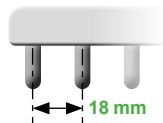
- Phase-separated wall that can be divided to allow the teeth of all types of comb busbar to pass through.
- Staggered terminals to simplify connection.

## Dimensions (mm)



## Technical data

| Main characteristics       |                                              |
|----------------------------|----------------------------------------------|
| Pollution degree           | 3                                            |
| Power circuit              |                                              |
| Voltage rating (Ue)        | 250 V AC                                     |
| Current rating (Ie)        | 20 A                                         |
| Additional characteristics |                                              |
| Endurance (O-C)            | 30,000 operations AC22 (cos φ = 0.8)         |
| Operating temperature      | -35°C... +70°C                               |
| Storage temperature        | -40°C... +80°C                               |
| Tropicalization            | Treatment 2 (relative humidity 95 % at 55°C) |



IEC 60947-7-1, IEC 61439-2



| Acti 9 iC60           |          |          |           |            |
|-----------------------|----------|----------|-----------|------------|
| 18 mm poles, cuttable |          |          |           |            |
| Number of poles       | 1P       | 1P+N     | 3P        | 3P+N       |
|                       |          |          |           |            |
| Type                  | L1       | N L      | L1 L2 L3  | N L1 L2 L3 |
| Set of                | L1...    | NL...    | L1L2L3... | NL1L2L3... |
| Set of                | 1        | 1        | 1         | 1          |
| Catalogue numbers     |          |          |           |            |
| 6 modules of 18 mm    | A9XPH106 | -        | A9XPH306  | -          |
| 12 modules of 18 mm   | A9XPH112 | A9XPH212 | A9XPH312  | A9XPH412   |
| 24 modules of 18 mm   | A9XPH124 | A9XPH224 | A9XPH324  | A9XPH424   |
| 57 modules of 18 mm   | A9XPH157 | A9XPH257 | A9XPH357  | A9XPH457   |

| Technical data                |                                                                              |
|-------------------------------|------------------------------------------------------------------------------|
| Operating current (Ie)        | 100 A                                                                        |
| Short circuit current (Isc)   | Compatible with the breaking capacity of Schneider Electric circuit breakers |
| Rated insulation voltage (Ui) | 500 V AC                                                                     |
| Operating voltage (Ue)        | 415 V AC                                                                     |
| Pollution degree              | 3                                                                            |
| Fire resistance IEC 695-2-1   | Self-extinguishing at 960°C 30 secondes                                      |
| Color                         | RAL 7016 (anthracite grey)                                                   |

### End-pieces

- essential to ensure the correctly comb busbars insulation



### Connectors

- facilitate comb busbar power supply

| Accessories       |                                              |          |          |          |                                         |                                                                                                                            |
|-------------------|----------------------------------------------|----------|----------|----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Number of poles   | 1P                                           | 1P+N     | 3P       | 3P+N     | -                                       | -                                                                                                                          |
|                   |                                              |          |          |          |                                         |                                                                                                                            |
|                   | <b>End-pieces</b>                            |          |          |          | <b>Tooth covers</b>                     | <b>Connectors</b>                                                                                                          |
|                   | Lateral end-pieces providing IP20 protection |          |          |          | Insulate teeth that have been left free | <b>Monoconnect</b><br>Comb busbar power supply. Horizontal incomer on each side. For 35 mm² cable. Tightening torque 4 N.m |
| Set of            | 10                                           | 10       | 10       | 10       | 20                                      | 4                                                                                                                          |
| Catalogue numbers | A9XPE110                                     | A9XPE210 | A9XPE310 | A9XPE410 | A9XPT920                                | A9XPCM04                                                                                                                   |



PB11254-30\_1.eps



PB11246-20\_1.eps



### IEC/EN 60947-7-1, IEC/EN 61439-1 & 2

#### Description

- Four-pole distribution block that can be installed on a standard DIN rail or on a mounting plate.
- Compatible with Prisma G and P, Pragma, Mini Pragma and Resbo series switchboards.
- Incomers and feeders are connected to screw terminals that accept rigid or flexible cables with ferrule.
- Optional: additional neutral terminal strip for four-pole distribution block.

#### Advantages

- Simplified power supply for main incomers.
- Easy phase balancing.
- Easy, effortless cabling due to excellent accessibility.
- Visible cabling.
- Insulation between phases.
- The single-pole distribution blocks are adjacent and bridgeable via the second incoming hole for parallel connection.

#### Screw distribution blocks

| Number of poles                                                          | 4P                                                                                  |                                                                                      |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                          |  |  |
| Rated operational current                                                | 100 A                                                                               | 160 A                                                                                |
| Total connections capacity                                               | 4 x 7                                                                               | 4 x 12                                                                               |
| <b>Terminal capacity</b>                                                 |                                                                                     |                                                                                      |
| Diameter                                                                 | 2 x Ø 7.5 mm                                                                        | 1 x Ø 12 mm                                                                          |
|                                                                          | 5 x Ø 5.5 mm                                                                        | 3 x Ø 9 mm                                                                           |
|                                                                          | -                                                                                   | 8 x Ø 7.5 mm                                                                         |
|                                                                          | -                                                                                   | -                                                                                    |
| Rated peak withstand current (I <sub>pk</sub> )                          | I <sub>pk</sub> /60 ms<br>14 kA                                                     | 22 kA                                                                                |
|                                                                          | I <sub>pk</sub> /6 ms<br>24 kA                                                      | 36 kA                                                                                |
| Rated short-time withstand current (I <sub>cw</sub> ) (IEC/EN 60947-7-1) | 3 kA rms/1 s                                                                        | 8.4 kA rms/1 s                                                                       |
| Width (number of 9 mm pitches)                                           | 8                                                                                   | 18                                                                                   |
| Dimension (H x W x D)                                                    | 100 x 71 x 50.5                                                                     | 100 x 174 x 50.5                                                                     |
| Weight (g)                                                               | 210                                                                                 | 567                                                                                  |
| References                                                               | LGY410028                                                                           | LGY416048                                                                            |

DS40005\_1.eps



On LGY416048 references.  
Input cabling facilitated by side terminals.

### Technical data

#### Common characteristics

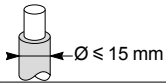
To IEC/EN 60947-7-1 and IEC/EN 61439-1 & 2

|                                                        |                                                                                                            |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Rated insulation voltage (Ui)                          | 500 V AC                                                                                                   |
| Rated operational voltage (Ue)                         | 230 V AC (Ph/N)<br>440 V AC (Ph/Ph)                                                                        |
| Rated impulse withstand voltage (Uimp)                 | 8 kV                                                                                                       |
| Rated conditional short-circuit current of an assembly | Up to the breaking capacity of Schneider Electric feeder circuit breakers, even in cascading configuration |
| Network frequency                                      | 50/60 Hz                                                                                                   |
| Pollution degree                                       | 3                                                                                                          |
| Overvoltage category                                   | III                                                                                                        |

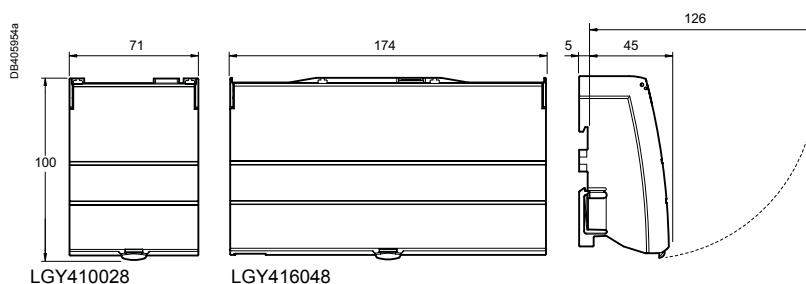
#### Additional technical characteristics

|                                       |                 |
|---------------------------------------|-----------------|
| Reference temperature                 | 40 °C           |
| Operating temperature                 | -25 °C to 55 °C |
| Dielectric withstand (IEC/EN 60947-1) | 2500 V AC       |

### Terminal technical data

| Type                                   | PZ2 screw     |               |               |                                                                                     |               |             |              |              |
|----------------------------------------|---------------|---------------|---------------|-------------------------------------------------------------------------------------|---------------|-------------|--------------|--------------|
| Diameter                               | Ø 5.5 mm      | Ø 5.8 mm      | Ø 6 mm        | Ø 6.5 mm                                                                            | Ø 7.5 mm      | Ø 8.5 mm    | Ø 9 mm       | Ø 9.5 mm     |
| Section rigid cable                    | 1.5 to 16 mm² | 1.5 to 16 mm² | 1.5 to 16 mm² | 1.5 to 16 mm²                                                                       | 2.5 to 25 mm² | 6 to 35 mm² | 10 to 35 mm² | 10 to 35 mm² |
| Section flexible cable or with ferrule | 1.5 to 10 mm² | 1.5 to 10 mm² | 1.5 to 10 mm² | 1.5 to 10 mm²                                                                       | 1.5 to 16 mm² | 4 to 25 mm² | 4 to 25 mm²  | 6 to 35 mm²  |
| Tightening torque                      | 2 N.m         | 2 N.m         | 2 N.m         | 2 N.m                                                                               | 2 N.m         | 2 N.m       | 2.5 N.m      | 2.5 N.m      |
| Type                                   | Hc screw      |               |               |                                                                                     |               |             |              |              |
| Diameter                               | Ø 9.5 mm      | Ø 10 mm       | Ø 12 mm       | Ø 15.3 mm                                                                           |               |             |              |              |
| Section rigid cable                    | 10 to 35 mm²  | 1.5 to 50 mm² | 25 to 70 mm²  | 35 to 120 mm²                                                                       |               |             |              |              |
|                                        |               |               |               |  |               |             |              |              |
| Section flexible cable or with ferrule | 6 to 35 mm²   | 1.5 to 35 mm² | 16 to 50 mm²  | 25 to 95 mm²                                                                        |               |             |              |              |
| Tightening torque                      | 8 N.m         | 4 N.m         | 1P: 9 N.m     | 4P: 5 N.m                                                                           | 14 N.m        |             |              |              |

### Dimensions (mm)





### IEC 60947-7-1, IEC 61439-2

#### Description

- Downstream circuits are connected from the front, to spring terminals.
- Contact pressure automatically adapts to the size of the conductor.
- Contacts are insensitive to vibrations and thermal variations.
- Only one cable (flexible or rigid) can be inserted per terminal.

#### Quick distribution blocks

| Number of poles                                              | 4P, incomers from top                                                                                                                        | 4P, incomers from bottom                                                                                                                     |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              |                                                             |                                                            |
| Rated operational current at 40 °C (Ie)                      | 63 A                                                                                                                                         | 63 A                                                                                                                                         |
| Rated conditional short-circuit current of an assembly (Isc) | The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. | The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. |
| Rated insulation voltage (Ui)                                | 500 V AC                                                                                                                                     | 500 V AC                                                                                                                                     |
| Rated operational voltage (Ue)                               | 440 V AC                                                                                                                                     | 440 V AC                                                                                                                                     |
| Rated impulse withstand voltage (Uimp)                       | 6 kV                                                                                                                                         | 6 kV                                                                                                                                         |
| Rated short-time withstand current (Icw)                     | -                                                                                                                                            | -                                                                                                                                            |
| Rated operational frequency                                  | 50/60 Hz                                                                                                                                     | 50/60 Hz                                                                                                                                     |
| Degree of protection                                         | IPxxB                                                                                                                                        | IPxxB                                                                                                                                        |
| Incoming terminals                                           | 1 tunnel terminal 25 <sup>2</sup> /phase                                                                                                     | 1 tunnel terminal 25 <sup>2</sup> /phase                                                                                                     |
| Total connection capacity, outgoing terminals                | 24 connections:<br>4 x 6 <sup>2</sup> /phase<br>12 x 6 <sup>2</sup> /neutral                                                                 | 24 connections:<br>4 x 6 <sup>2</sup> /phase<br>12 x 6 <sup>2</sup> /neutral                                                                 |
| Dimensions (H x W x D)                                       | 96.5 x 72 x 62<br>8 x 9 mm pitch                                                                                                             | 96.5 x 72 x 62<br>8 x 9 mm pitch                                                                                                             |
| Installation                                                 | Clipped onto a DIN rail                                                                                                                      | Clipped onto a DIN rail                                                                                                                      |
| Other                                                        |                                                                                                                                              |                                                                                                                                              |
| Standard for installation inside Prisma                      | IEC 61439-2                                                                                                                                  | IEC 61439-2                                                                                                                                  |
| Glow-wire 60695-2-11                                         | 960 °C                                                                                                                                       | 960 °C                                                                                                                                       |
| Degree of pollution                                          | 3                                                                                                                                            | 3                                                                                                                                            |
| References                                                   | <b>04040</b>                                                                                                                                 | <b>04041</b>                                                                                                                                 |

#### Advantages

- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

## IEC 60947-7-1, IEC 61439-2



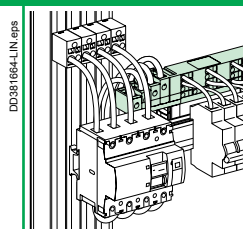
### Description

- Distribution over full rows of modular devices.
- The distribution block is generally supplied by busbars in enclosures and cubicles.
- Easy phase balancing.
- Mix of devices and functions in the same row.
- Installation  $\geq 160$  A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

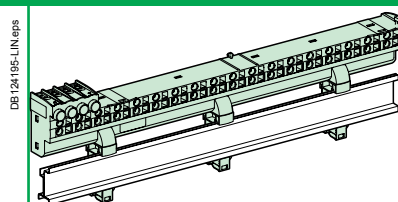
### Distribution blocks

| Number of poles                                                   |                                 |         | 4P                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------|---------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   |                                 |         |                                                                                                                                                                                                                                            |
|                                                                   |                                 |         | 80 A                                                                                                                                                                                                                                                                                                                         |
| Rated peak withstand current                                      | (I <sub>pk</sub> )              |         | 15 kA                                                                                                                                                                                                                                                                                                                        |
| Rated conditional short-circuit current of an assembly            | (I <sub>sc</sub> )              |         | The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained. |
| Rated insulation voltage                                          | (U <sub>i</sub> )               |         | 500 V AC                                                                                                                                                                                                                                                                                                                     |
| Rated operational voltage                                         | (U <sub>e</sub> )               |         | 440 V AC                                                                                                                                                                                                                                                                                                                     |
| Rated impulse withstand voltage                                   | (U <sub>imp</sub> )             |         | 6 kV                                                                                                                                                                                                                                                                                                                         |
| Rated operational frequency                                       |                                 |         | 50/60 Hz                                                                                                                                                                                                                                                                                                                     |
| Degree of protection                                              |                                 |         | IP20                                                                                                                                                                                                                                                                                                                         |
| Lenght                                                            | In 9 mm modules                 |         | 48                                                                                                                                                                                                                                                                                                                           |
|                                                                   | In 18 mm modules                |         | 24                                                                                                                                                                                                                                                                                                                           |
| Upstream connection capacity                                      |                                 |         | Tunnel terminals for cables up to 25 mm <sup>2</sup>                                                                                                                                                                                                                                                                         |
| Downstream connection capacity, cable to be used without ferrules | Max. 10 mm <sup>2</sup>         | Phasesw | 18                                                                                                                                                                                                                                                                                                                           |
|                                                                   |                                 | Neutral | 18                                                                                                                                                                                                                                                                                                                           |
| Accessories included                                              | Pre-stripped copper connections |         | 12 blue + 12 black                                                                                                                                                                                                                                                                                                           |
| References                                                        |                                 |         | 04000                                                                                                                                                                                                                                                                                                                        |

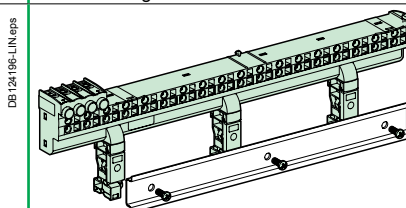
### Installation



Clipped onto the back of a modular rail, or screw fixing

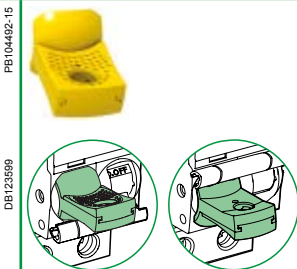


Clipped onto the back of a modular rail, or screw fixing

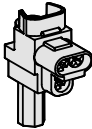


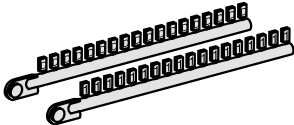
Can be mounted in Pragma Evolution enclosures and in Prisma Pack 160

| Mounting          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |           |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Accessories       | Rotary handle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |           | Plug-in base                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                   | <div><div>PB104508-35</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |           | <div><div>PB106297-10</div></div>                             | <div><div>PB104508-35</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Function          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |           |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                   | <b>Front or side-mounted control</b> <ul style="list-style-type: none"><li>■ Degree of protection: IP55 rotary handle</li><li>■ Installation:<ul style="list-style-type: none"><li>□ the control mechanism is mounted on the device</li><li>□ the rotary handle is fixed to the front or side of the enclosure</li></ul></li><li>■ Front-mounted (on door or faceplate)</li><li>■ Prevents the door from opening when the device is in the ON position (can be deactivated)</li><li>■ Can be padlocked when the device is in the "open" position (can be padlocked with the device in the "closed" position subject to adaptation)</li><li>■ Can be locked by padlock of (dia. 5 to 8 mm), not supplied with the device</li><li>■ Pushbutton: iID test available in the front face of the rotary handle</li></ul> |            |           | <ul style="list-style-type: none"><li>■ The Laser Square tool brings the accuracy to align the circuit breaker and the rotary handle</li></ul> | <b>Allows a breaker to be removed or replaced quickly, without handling the connections</b> <ul style="list-style-type: none"><li>■ Degree of protection: IP20</li><li>■ Consists of:<ul style="list-style-type: none"><li>□ a base to be fastened on a rail (or panel)</li><li>□ 2 "blades" to be fastened in the device's terminals</li></ul></li><li>■ Connection: tunnel terminals for cable up to 35 mm² rigid, 25 mm² flexible,</li><li>■ Installation:<ul style="list-style-type: none"><li>□ in universal enclosure</li><li>□ on horizontal rail</li></ul></li><li>■ Height: 178 mm</li><li>■ Not compatible with Vigî iC60 and auxiliaries</li><li>■ Can be locked by padlock of (dia. 6 mm), not supplied with the device</li></ul> |  |
| Catalogue numbers | A9A27005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A9A27006   | A9A27008  | GVAPL01                                                                                                                                        | A9A27003<br>(1 per pole)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|                   | Operating sub-assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |           |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                   | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | +          |           |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                   | Black handle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Red handle | No handle |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Set of            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1          | 1         | 1                                                                                                                                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Suitability       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |           |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| iC60              | ■ 2P, 3P, 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |           |                                                                                                                                                | ■                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| iSW Acti 9        | ■ 2P, 3P, 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |           |                                                                                                                                                | ■                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| iC60 + Vigî iC60  | ■ 2P, 3P, 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |           |                                                                                                                                                | –                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| iID               | ■                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |           |                                                                                                                                                | ■ ≤ 63 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| iDPN Vigî         | –                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |           |                                                                                                                                                | –                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| iSW-NA            | ■                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |           |                                                                                                                                                | ■                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |

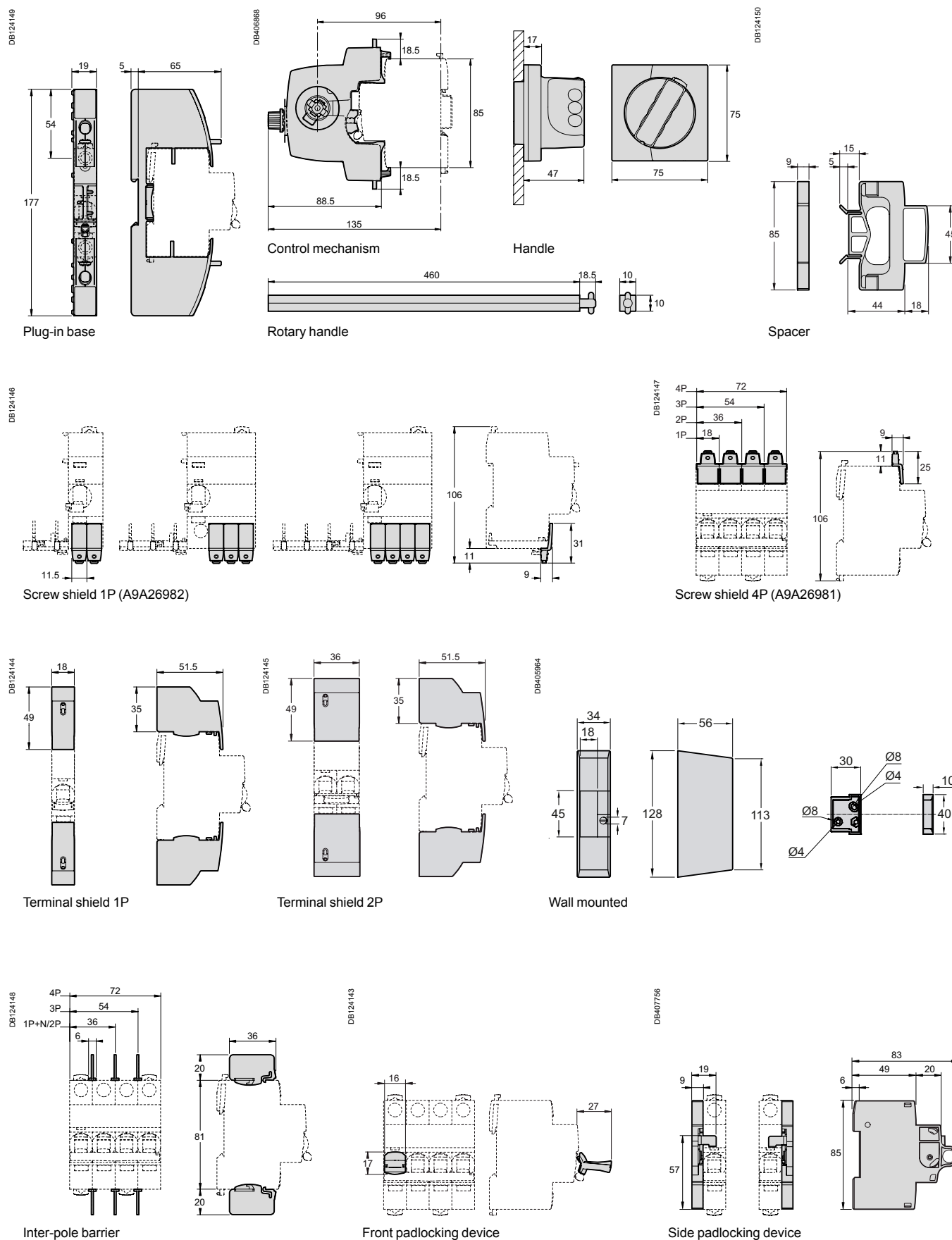
| Padlocking device                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                    |                                                                                                      |                                                                                                                                                                                                            | Wall mounting                                                                                          | Spare part<br>Locking clips |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------|
| Front                                                                                                                                                                                                                                                                                                                                                  | Side                                                                                                                                                                                                               |                                                                                                      |                                                                                                                                                                                                            |                                                                                                        |                             |
|  <p>PB104492-15<br/>DB123599</p>                                                                                                                                                                                                                                      |  <p>A9A26380-40</p>                                                                                                               |  <p>A9A26381-40</p> |  <p>P135159-40</p>                                                                                                       |  <p>A9A27052-25</p> |                             |
| <b>Used to padlock breaker in open or closed position</b> <ul style="list-style-type: none"> <li>■ Padlock diameter: 3 to 6 mm</li> <li>■ Sealable (max. diameter: 1.2 mm)</li> <li>■ Locking in ON position does not prevent tripping of the breaker in the event of faults</li> <li>■ Suitable for IEC/EN 60947-2 compliant disconnection</li> </ul> | <b>Can be used to padlock a circuit breaker in open position</b> <ul style="list-style-type: none"> <li>■ Attached directly to the circuit breaker, it cannot be lost</li> <li>■ Padlock diameter: 6 mm</li> </ul> |                                                                                                      | <b>Can be used for wall mounted installation of any 18 mm DIN rail devices</b> <ul style="list-style-type: none"> <li>■ Degree of protection: IP40</li> <li>■ Sealable: (max. diameter: 1.5 mm)</li> </ul> | <b>Top and bottom locking clips for monoconnect iC60</b>                                               |                             |
| <b>A9A26970</b>                                                                                                                                                                                                                                                                                                                                        | <b>A9A26380</b><br>Left-hand mounting                                                                                                                                                                              | <b>A9A26381</b><br>Right-hand mounting                                                               | <b>15359</b>                                                                                                                                                                                               | <b>A9A27052</b>                                                                                        |                             |
| <b>10</b>                                                                                                                                                                                                                                                                                                                                              | <b>1</b>                                                                                                                                                                                                           | <b>1</b>                                                                                             | <b>1</b>                                                                                                                                                                                                   | <b>10</b>                                                                                              |                             |
| ■                                                                                                                                                                                                                                                                                                                                                      | ■                                                                                                                                                                                                                  | ■                                                                                                    | <ul style="list-style-type: none"> <li>■ All products up to 18 mm</li> <li>■ Except iCT</li> </ul>                                                                                                         |                                                                                                        | ■                           |
| ■                                                                                                                                                                                                                                                                                                                                                      | —                                                                                                                                                                                                                  | —                                                                                                    |                                                                                                                                                                                                            |                                                                                                        | —                           |
| ■                                                                                                                                                                                                                                                                                                                                                      | —                                                                                                                                                                                                                  | —                                                                                                    |                                                                                                                                                                                                            |                                                                                                        | —                           |
| ■                                                                                                                                                                                                                                                                                                                                                      | ■                                                                                                                                                                                                                  | —                                                                                                    |                                                                                                                                                                                                            |                                                                                                        | —                           |
| ■                                                                                                                                                                                                                                                                                                                                                      | —                                                                                                                                                                                                                  | —                                                                                                    |                                                                                                                                                                                                            |                                                                                                        | —                           |
| ■                                                                                                                                                                                                                                                                                                                                                      | —                                                                                                                                                                                                                  | —                                                                                                    |                                                                                                                                                                                                            |                                                                                                        | —                           |

| Security                                                                                         |                                                                                                                                                                                             |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessories                                                                                      | Screw shield                                                                                                                                                                                |                                                                                                  | Terminal shield                                                                                                                                                                                                                                                                                                                                 |                                                                                                  | Inter-pole barrier                                                                                 | Spacer                                                                                                                                                                                                                                                                                                        |
| <br>PB104489-14 | <br>PB104488-14                                                                                            | <br>PB104489-14 | <br>PB104502-35                                                                                                                                                                                                                                                | <br>PB104503-35 | <br>PB104484-30 | <br>PB104483-35                                                                                                                                                                                                            |
| Function                                                                                         |                                                                                                                                                                                             |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                               |
|                                                                                                  | <b>Prevents any contact with the connecting screws</b> <ul style="list-style-type: none"> <li>■ Upgrades degree of protection to IP20D</li> <li>■ Sealable, max. diameter 1.2 mm</li> </ul> |                                                                                                  | <b>Prevents any contact with the terminals</b> <ul style="list-style-type: none"> <li>■ Upgrades degree of protection to IP20D</li> <li>■ Sealable, max. diameter 1.2 mm</li> <li>■ Set of two, for upstream and downstream terminals</li> <li>■ For 3 poles: <b>A9A26975 + A9A26976</b></li> <li>■ For 4 poles: 2 X <b>A9A26976</b></li> </ul> |                                                                                                  | <b>Enhances insulation between connections: cables, terminals, lugs, etc</b>                       | <ul style="list-style-type: none"> <li>■ Used to:               <ul style="list-style-type: none"> <li>□ complete rows</li> <li>□ separate devices.</li> </ul> </li> <li>Width: 1 x 9 mm module</li> <li>■ Allows cable routing from one row to another, (above and below), up to 6 mm<sup>2</sup></li> </ul> |
| Catalogue numbers                                                                                | <b>A9A26982</b>                                                                                                                                                                             | <b>A9A26981</b>                                                                                  | <b>A9A26975</b>                                                                                                                                                                                                                                                                                                                                 | <b>A9A26976</b>                                                                                  | <b>A9A27001</b>                                                                                    | <b>A9A27062</b>                                                                                                                                                                                                                                                                                               |
| Set of                                                                                           | 12 x 1 pole                                                                                                                                                                                 | 20 x 4 poles (splittable)                                                                        | 2 x 1 pole                                                                                                                                                                                                                                                                                                                                      | 2 x 2 poles                                                                                      | 10                                                                                                 | 5                                                                                                                                                                                                                                                                                                             |
| Suitability                                                                                      |                                                                                                                                                                                             |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                               |
| iC60                                                                                             | –                                                                                                                                                                                           | ■                                                                                                | ■                                                                                                                                                                                                                                                                                                                                               | ■                                                                                                | ■                                                                                                  | ■                                                                                                                                                                                                                                                                                                             |
| iSW Acti 9                                                                                       | –                                                                                                                                                                                           | –                                                                                                | ■                                                                                                                                                                                                                                                                                                                                               | ■                                                                                                | ■                                                                                                  | ■                                                                                                                                                                                                                                                                                                             |
| Vigi iC60                                                                                        | ■                                                                                                                                                                                           | –                                                                                                | –                                                                                                                                                                                                                                                                                                                                               | –                                                                                                | –                                                                                                  | ■                                                                                                                                                                                                                                                                                                             |
| iLD                                                                                              | –                                                                                                                                                                                           | ■                                                                                                | –                                                                                                                                                                                                                                                                                                                                               | ■                                                                                                | ■                                                                                                  | ■                                                                                                                                                                                                                                                                                                             |
| iDPN Vigi                                                                                        | –                                                                                                                                                                                           | –                                                                                                | –                                                                                                                                                                                                                                                                                                                                               | –                                                                                                | –                                                                                                  | ■                                                                                                                                                                                                                                                                                                             |
| iSW-NA                                                                                           | –                                                                                                                                                                                           | ■                                                                                                | –                                                                                                                                                                                                                                                                                                                                               | ■                                                                                                | ■                                                                                                  | ■                                                                                                                                                                                                                                                                                                             |

| Connection             |                                                                                                                                  |       |                                                                                                          |                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Accessories            | Multi-cable terminal                                                                                                             |       | 50 mm² terminal Al                                                                                       | Screw-on connection for ring terminal                                                                          |
|                        | <div>DB118780</div>                             |       | <div>DB118781</div>     | <div>DB118783</div>         |
| Function               |                                                                                                                                  |       |                                                                                                          |                                                                                                                |
|                        | <b>For 3 copper cables:</b> <ul style="list-style-type: none"><li>■ Rigid up to 16 mm²</li><li>■ Flexible up to 10 mm²</li></ul> |       | <b>For aluminium cables from 16 to 50 mm²</b>                                                            | <b>For lug tipped cables, front or rear mounting</b>                                                           |
|                        | <div>DB118787</div>                             |       | <div>DB122935</div>  Al | <div>DB118789</div>  Ø 5 mm |
| Catalogue numbers      | 19091                                                                                                                            | 19096 | 27060                                                                                                    | 27053                                                                                                          |
| Set of                 | 4                                                                                                                                | 3     | 1                                                                                                        | 8                                                                                                              |
| Suitability            |                                                                                                                                  |       |                                                                                                          |                                                                                                                |
| iC60 ≤ 25 A            | —                                                                                                                                | —     | —                                                                                                        | ■                                                                                                              |
| iC60 >25 A, iSW Acti 9 | ■                                                                                                                                | ■     | ■                                                                                                        | ■                                                                                                              |
| Vigi iC60              | —                                                                                                                                | —     | —                                                                                                        | —                                                                                                              |
| iID                    | ■                                                                                                                                | ■     | ■                                                                                                        | ■                                                                                                              |
| iDPN Vigi              | —                                                                                                                                | —     | —                                                                                                        | ■                                                                                                              |
| iSW-NA                 | ■                                                                                                                                | ■     | ■                                                                                                        | ■                                                                                                              |
| Tightening torque      | 2 N.m                                                                                                                            |       | 10 N.m                                                                                                   | 2 N.m                                                                                                          |
| Lenght stripping       | 11 mm                                                                                                                            |       | 13 mm                                                                                                    | —                                                                                                              |
| Tools to use           | Dia. 5 mm or PZ2                                                                                                                 |       | Hc 1/5" or 5 mm                                                                                          | Dia. 5mm                                                                                                       |

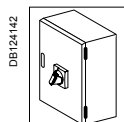
| Marking                            |                                                                                                                    |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Accessories                        |                                                                                                                    |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
|                                    | <div>DB118785</div> <div></div> |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| Used for connection identification |                                                                                                                    |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| Catalogue numbers                  | 0: AB1-R0<br>1: AB1-R1<br>2: AB1-R2<br>3: AB1-R3<br>4: AB1-R4                                                      | 5: AB1-R5<br>6: AB1-R6<br>7: AB1-R7<br>8: AB1-R8<br>9: AB1-R9 | A: AB1-GA<br>B: AB1-GB<br>C: AB1-GC<br>D: AB1-GD<br>E: AB1-GE<br>F: AB1-GF<br>G: AB1-GG<br>H: AB1-GH<br>I: AB1-GI | J: AB1-GJ<br>K: AB1-GK<br>L: AB1-GL<br>M: AB1-GM<br>N: AB1-GN<br>O: AB1-GO<br>P: AB1-GP<br>Q: AB1-GQ<br>R: AB1-GR | S: AB1-GS<br>T: AB1-GT<br>U: AB1-GU<br>V: AB1-GV<br>W: AB1-GW<br>X: AB1-GX<br>Y: AB1-GY<br>Z: AB1-GZ | +: AB1-R12<br>-: AB1-R13<br>Blank: AB1-RV |
| Set of                             | 250                                                                                                                |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| Suitability                        |                                                                                                                    |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| iC60, iSW Acti 9                   | ■ 4 markers max. per pole                                                                                          |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| Vigi iC60                          | ■ 4 markers max. per device                                                                                        |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| iID                                | ■ 4 markers max. per device                                                                                        |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| iDPN Vigi                          | ■ 4 markers max. per device                                                                                        |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |
| iSW-NA                             | ■ 4 markers max. per device                                                                                        |                                                               |                                                                                                                   |                                                                                                                   |                                                                                                      |                                           |

## Dimensions (mm)



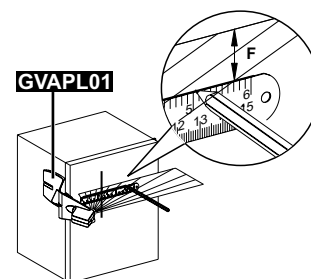
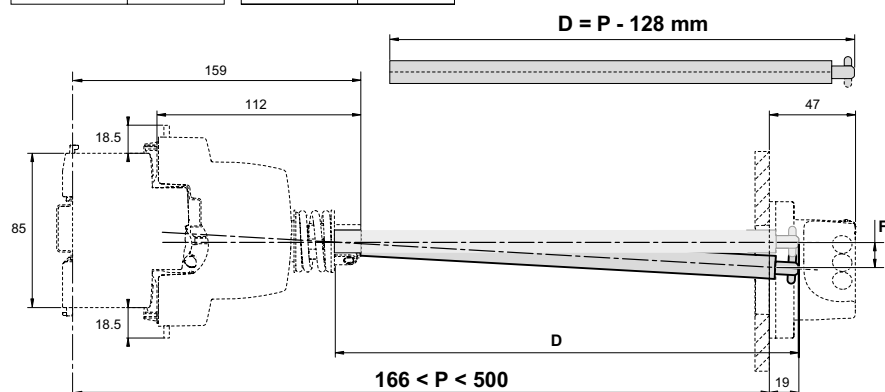
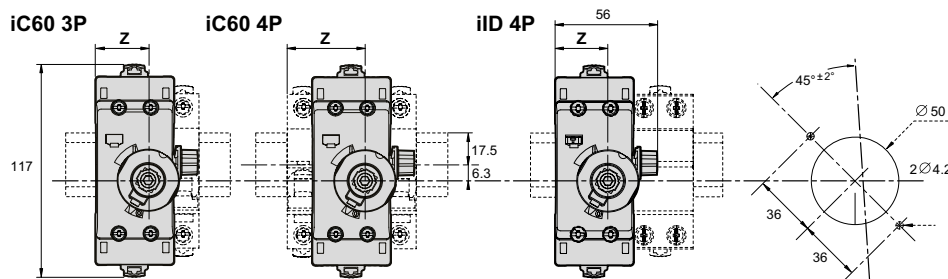
## Rotary handle installation

### Dimensions (mm)



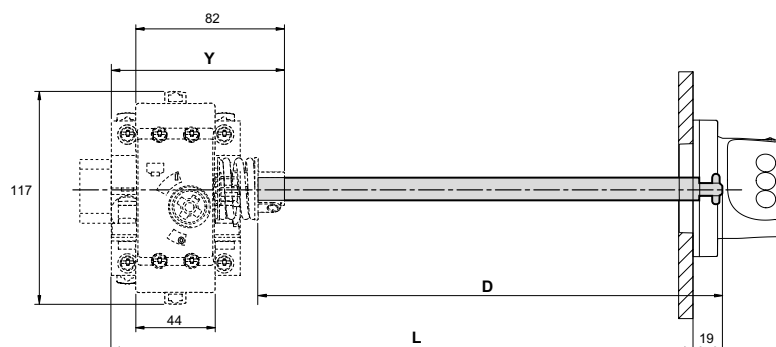
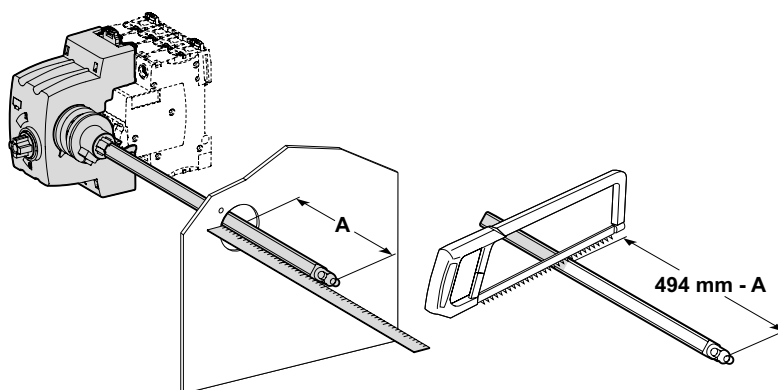
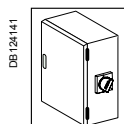
| iC60       | Z (mm) |
|------------|--------|
| 2P         | 25.3   |
| 2P + Vigti | 25.3   |
| 3P         | 25.3   |
| 3P + Vigti | 43     |
| 4P         | 43     |
| 4P + Vigti | 43     |

| iID | Z (mm) |
|-----|--------|
| 2P  | 25.3   |
| 4P  | 25.3   |



| P (mm) | F (mm) |
|--------|--------|
| 300    | 5      |
| 500    | 11     |

Rotary handle: front mounted control



| iC60       | X (mm) | Y (mm) |
|------------|--------|--------|
| 2P         | 44.5   | 76.8   |
| 2P + Vigti | 44.5   | 76.8   |
| 3P         | 44.5   | 76.8   |
| 3P + Vigti | 62     | 94.5   |
| 4P         | 62     | 94.5   |
| 4P + Vigti | 62     | 94.5   |

| iID/iSW-NA | X (mm) | Y (mm) |
|------------|--------|--------|
| 2P         | 44.5   | 76.8   |
| 4P         | 44.5   | 76.8   |



Rotary handle: side mounted control

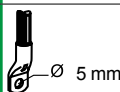
# Accessories for C120, C60H- DC, iSW, DPN N Vigi devices

| Installation                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                                                                                                                                                                                                                                                                                                                                              |              |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Accessories                         | Rotary handle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                           | Plug-in base                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              | Padlocking device                                                                                                                                                                                                                                                                                                                            |              |
| PB100137_SE-24 PB100138_SE-24       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |                                                                                                                                                                                                                                                           |              |
|                                     | PB11764-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                           | 056886 SE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              | 057209J_SE-20                                                                                                                                                                                                                                                                                                                                |              |
| Function                            | <b>Front or side control of 2, 3 and 4-pole circuit breakers</b> <ul style="list-style-type: none"> <li>■ Degree of protection: IP40</li> <li>■ A complete rotary handle consists of: <ul style="list-style-type: none"> <li>□ a circuit-breaker operating sub-assembly, cat. no. <b>27046</b>,</li> <li>□ a handle cat. no. <b>27047</b> or a handle cat. no. <b>27048</b></li> </ul> </li> <li>■ Installation: <ul style="list-style-type: none"> <li>□ the circuit-breaker operating sub-assembly cat. no. <b>27046</b> is fixed to the circuit breaker</li> <li>□ the removable handle cat. no. <b>27047</b> is mounted on the removable front panel or on the enclosure door</li> <li>□ the fixed handle cat. no. <b>27048</b> is fixed to the front or side panel of the enclosure</li> </ul> </li> </ul> |                                 |                                           | <b>Allows a circuit breaker to be quickly removed or replaced, without touching the connections</b> <ul style="list-style-type: none"> <li>■ Degree of protection: IP20</li> <li>■ It consists of: <ul style="list-style-type: none"> <li>□ a base to be fixed to a rail (or panel)</li> <li>□ 2 "blades" to be fixed in the device terminals</li> </ul> </li> <li>■ Connection: tunnel terminals for cables up to 50 mm<sup>2</sup> (rigid) or 35 mm<sup>2</sup> (flexible)</li> <li>■ Installation: <ul style="list-style-type: none"> <li>□ on backplate</li> <li>□ on a horizontal rail</li> <li>■ Centreline between two rows: 200 mm</li> <li>■ Only on the circuit breaker, without a Vigi device or auxiliary</li> <li>■ Padlocking option (8 mm dia. padlock not supplied)</li> </ul> </li> </ul> |                              | <b>Used to padlock a circuit breaker in the "open" or "closed" position</b> <ul style="list-style-type: none"> <li>■ Diameter of the padlock: 8 mm max.</li> <li>■ Locking in the ON position does not prevent the circuit breaker from tripping in the event of a fault</li> <li>■ Isolation: in conformity with IEC/EN 60947-2.</li> </ul> |              |
| Cat. numbers                        | <b>27047</b><br>Removable<br>extended<br>handle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>27048</b><br>Fixed<br>handle | <b>27046</b><br>Operating<br>sub-assembly | <b>26996</b><br>(1 per pole)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>26997</b><br>(1 per pole) | <b>27145</b>                                                                                                                                                                                                                                                                                                                                 | <b>26970</b> |
| Set of                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                               | 1                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                            | 4                                                                                                                                                                                                                                                                                                                                            | 2            |
| Suitable for the following devices: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                                                                                                                                                                                                                                                                                                                                              |              |
| <b>C120</b>                         | ■ 2P, 3P, 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                           | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ■ ≤ 63 A                     | ■                                                                                                                                                                                                                                                                                                                                            | —            |
| <b>C120 + Vigi C120</b>             | ■ 2P, 3P, 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                           | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                            | ■                                                                                                                                                                                                                                                                                                                                            | —            |
| <b>C60H-DC</b>                      | ■ 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                           | ■                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                            | —                                                                                                                                                                                                                                                                                                                                            | ■            |
| <b>iSW</b>                          | ■ iSW ≥ at 4 modules of 9 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                           | ■ iSW 40 to 63 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | —                            | —                                                                                                                                                                                                                                                                                                                                            | ■            |
| <b>DPN N Vigi</b>                   | ■                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                           | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                            | —                                                                                                                                                                                                                                                                                                                                            | ■            |

# Accessories for C120, C60H- DC, iSW, DPN N Vigi devices (cont.)

| Safety                              |                                                                                                                                                                                                         |                                                                                                                  |                                                                                                                                                                                                                                                                                                                            |                                                                                                                    |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                 |          |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Accessories                         | Screw shield                                                                                                                                                                                            |                                                                                                                  | Terminal shield                                                                                                                                                                                                                                                                                                            |                                                                                                                    |                                                                                                                       | Interpole barrier                                                                                                                                                                                                                                                                                                                                                                               | Spacer   |
|                                     | <div>056870_SE-33</div> <div></div>                                                                                    | <div>PB124114</div> <div></div> | <div>056888_SE-38</div> <div></div>                                                                                                                                                                                                       | <div>DB123898</div> <div></div> | <div>PB104483-35</div> <div></div> |                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| Function                            | <b>Prevents all contact with the fixing screws</b> <ul style="list-style-type: none"><li>■ The degree of protection becomes IP40</li><li>■ Sealable, max. diameter 1.2 mm</li><li>■ Dividable</li></ul> |                                                                                                                  | <b>Prevents all contact with the terminals</b> <ul style="list-style-type: none"><li>■ Degree of protection becomes IP40</li><li>■ Sealable, max. diameter 1.2 mm</li></ul> <div><div>■ 1P</div><div><div>■ 1P</div><div>■ 2P</div></div><div><div>■ 3P: 1 x 26975 + 1 x 26976</div><div>■ 4P: 2 x 26976</div></div></div> |                                                                                                                    |                                                                                                                       | <b>Improves the insulation between the connections: cables, terminals, lugs, etc.</b> <ul style="list-style-type: none"><li>■ Used to:<ul style="list-style-type: none"><li>□ complete the rows</li><li>□ separate the devices</li></ul></li><li>■ Width: 1 x 9 mm module</li><li>■ Allows that 2 cables are routed from one row to another (above and below), up to 6 mm<sup>2</sup></li></ul> |          |
| Cat. numbers                        | 18527                                                                                                                                                                                                   | 26981                                                                                                            | 18526                                                                                                                                                                                                                                                                                                                      | 26975                                                                                                              | 26976                                                                                                                 | 27001                                                                                                                                                                                                                                                                                                                                                                                           | A9N27062 |
| Set of                              | 2 (4P dividable)                                                                                                                                                                                        |                                                                                                                  | 2 (for upstream/downstream terminal)                                                                                                                                                                                                                                                                                       |                                                                                                                    |                                                                                                                       | 10                                                                                                                                                                                                                                                                                                                                                                                              | 1        |
| Suitable for the following devices: |                                                                                                                                                                                                         |                                                                                                                  |                                                                                                                                                                                                                                                                                                                            |                                                                                                                    |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| C120                                | ■                                                                                                                                                                                                       | —                                                                                                                | ■                                                                                                                                                                                                                                                                                                                          | —                                                                                                                  | —                                                                                                                     | ■                                                                                                                                                                                                                                                                                                                                                                                               | ■        |
| Vigi C120                           | —                                                                                                                                                                                                       | —                                                                                                                | —                                                                                                                                                                                                                                                                                                                          | —                                                                                                                  | —                                                                                                                     | —                                                                                                                                                                                                                                                                                                                                                                                               | ■        |
| C60H-DC                             | —                                                                                                                                                                                                       | ■                                                                                                                | —                                                                                                                                                                                                                                                                                                                          | ■                                                                                                                  | ■                                                                                                                     | ■                                                                                                                                                                                                                                                                                                                                                                                               | ■        |
| iSW                                 | —                                                                                                                                                                                                       | ■ iSW 40 to 125 A                                                                                                | —                                                                                                                                                                                                                                                                                                                          | ■ iSW 40 to 125 A                                                                                                  | ■ iSW 40 to 125 A                                                                                                     | ■ iSW 40 to 125 A                                                                                                                                                                                                                                                                                                                                                                               | ■        |
|                                     | —                                                                                                                                                                                                       | —                                                                                                                | —                                                                                                                                                                                                                                                                                                                          | —                                                                                                                  | —                                                                                                                     | —                                                                                                                                                                                                                                                                                                                                                                                               | ■        |

# Accessories for C120, C60H- DC, iSW, DPN N Vigi devices (cont.)

| Connection                          |                                                                                                                                                           |                                                     |                                                      |                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Accessories                         | Multi-cable terminal                                                                                                                                      | 50 mm <sup>2</sup> Al terminal                      | Screw-on connection for ring terminal                | Connection kit for ring terminals                                                                                                                                                                                               | Terminal for rear connector                                                                                                                    |                                                                                     |
| DB118780                            |                                                                          | DB118782                                            | DB123887                                             | 058867N-23                                                                                                                                                                                                                      | DB118784                                                                                                                                       |  |
| Function                            |                                                                                                                                                           |                                                     |                                                      |                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                     |
|                                     | <b>For 3 copper cables:</b> <ul style="list-style-type: none"> <li>■ Rigid up to 16 mm<sup>2</sup></li> <li>■ Flexible up to 10 mm<sup>2</sup></li> </ul> | <b>For 16 to 50 mm<sup>2</sup> aluminium cables</b> | <b>For lug tipped cables, front or rear mounting</b> | <b>For terminal up to 63 A, front or rear access (screw Ø 5 mm)</b> <ul style="list-style-type: none"> <li>■ It incorporates a "conductive" part and an "insulating" part which ensures the phase-to-phase clearance</li> </ul> | <b>For cable up to 50 mm<sup>2</sup> or by terminal</b> <ul style="list-style-type: none"> <li>■ Supplied with a 1P terminal shield</li> </ul> |                                                                                     |
| DB118787                            |                                                                          | DB122835                                            | DB118789                                             |                                                                                                                                                |                                                                                                                                                |                                                                                     |
| Cat. numbers                        | 19091                                                                                                                                                     | 19096                                               | 27060                                                | 27053                                                                                                                                                                                                                           | 17400                                                                                                                                          | 18528                                                                               |
| Set of                              | 4                                                                                                                                                         | 3                                                   | 1                                                    | 8                                                                                                                                                                                                                               | 2                                                                                                                                              | 2                                                                                   |
| Suitable for the following devices: |                                                                                                                                                           |                                                     |                                                      |                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                     |
| C120                                | ■                                                                                                                                                         | ■                                                   | ■                                                    | ■                                                                                                                                                                                                                               | —                                                                                                                                              | ■                                                                                   |
| Vigi C120                           | ■                                                                                                                                                         | ■                                                   | ■                                                    | —                                                                                                                                                                                                                               | —                                                                                                                                              | —                                                                                   |
| C60H-DC, iSW 40 to 125 A            | ■                                                                                                                                                         | ■                                                   | ■                                                    | ■                                                                                                                                                                                                                               | ■                                                                                                                                              | —                                                                                   |
| C60NA-DC                            | ■                                                                                                                                                         | ■                                                   | ■                                                    | ■                                                                                                                                                                                                                               | —                                                                                                                                              | —                                                                                   |
| DPN N Vigi                          | —                                                                                                                                                         | —                                                   | —                                                    | ■                                                                                                                                                                                                                               | —                                                                                                                                              | —                                                                                   |
| Tightening torque                   | 2 N.m                                                                                                                                                     |                                                     | 10 N.m                                               | 2 N.m                                                                                                                                                                                                                           | —                                                                                                                                              |                                                                                     |
| Stripping length                    | 11 mm                                                                                                                                                     |                                                     | 13 mm                                                | —                                                                                                                                                                                                                               | —                                                                                                                                              |                                                                                     |
| Tools to be used                    | Diameter 5 mm or PZ2                                                                                                                                      |                                                     | Hc 1/5" or 5 mm                                      | Diameter 5 mm                                                                                                                                                                                                                   | Diameter 5 mm                                                                                                                                  | 13 mm spanner                                                                       |

| Identification                      |                                                                                      |           |           |               |
|-------------------------------------|--------------------------------------------------------------------------------------|-----------|-----------|---------------|
| Accessories                         | Clip-on terminal marker strip                                                        |           |           |               |
| 031204D_SE-23                       |  |           |           |               |
| Function                            | For connection identification                                                        |           |           |               |
| Cat. numbers                        | 0: AB1-R0                                                                            | A: AB1-GA | K: AB1-GK | U: AB1-GU     |
|                                     | 1: AB1-R1                                                                            | B: AB1-GB | L: AB1-GL | V: AB1-GV     |
|                                     | 2: AB1-R2                                                                            | C: AB1-GC | M: AB1-GM | W: AB1-GW     |
|                                     | 3: AB1-R3                                                                            | D: AB1-GD | N: AB1-GN | X: AB1-GX     |
|                                     | 4: AB1-R4                                                                            | E: AB1-GE | O: AB1-GO | Y: AB1-GY     |
|                                     | 5: AB1-R5                                                                            | F: AB1-GF | P: AB1-GP | Z: AB1-GZ     |
|                                     | 6: AB1-R6                                                                            | G: AB1-GG | Q: AB1-GQ | +: AB1-R12    |
|                                     | 7: AB1-R7                                                                            | H: AB1-GH | R: AB1-GR | -: AB1-R13    |
|                                     | 8: AB1-R8                                                                            | I: AB1-GI | S: AB1-GS | Blank: AB1-RV |
|                                     | 9: AB1-R9                                                                            | J: AB1-GJ | T: AB1-GT |               |
| Set of                              | 250                                                                                  |           |           |               |
| Suitable for the following devices: |                                                                                      |           |           |               |
| C120                                | ■ 4 markers max. per pole                                                            |           |           |               |
| Vigi C120                           | ■ 4 markers max. per device                                                          |           |           |               |
| C60H-DC                             | ■ 4 markers max. per pole                                                            |           |           |               |
| iSW                                 | -                                                                                    |           |           |               |
| DPN N Vigi                          | ■ 4 markers max. per pole                                                            |           |           |               |



|               |              |               |                 |
|---------------|--------------|---------------|-----------------|
| 04000.....    | 97           | A9A26982..... | 100             |
| 04040.....    | 96           | A9A27001..... | 100             |
| 04041.....    | 96           | A9A27003..... | 98              |
| 10405.....    | 93           | A9A27005..... | 98              |
| 15111.....    | 63           | A9A27006..... | 98              |
| 15228.....    | 88           | A9A27008..... | 98              |
| 15229.....    | 88           | A9A27052..... | 98              |
| 15359.....    | 98           | A9A27062..... | 75, 76, 80, 100 |
| 15668.....    | 69           | A9C20731..... | 74              |
| 15669.....    | 69           | A9C20732..... | 74              |
| 16315.....    | 47, 48       | A9C20834..... | 74              |
| 16316.....    | 47, 48       | A9C20842..... | 74              |
| 16317.....    | 47, 48       | A9C21732..... | 74              |
| 16329.....    | 47, 48       | A9C21833..... | 74              |
| 16330.....    | 47, 48       | A9C21834..... | 74              |
| 16331.....    | 47, 48       | A9C22712..... | 74              |
| 16332.....    | 47, 48       | A9C30811..... | 78              |
| 16905.....    | 7            | A9C30812..... | 78              |
| 16907.....    | 7            | A9C70112..... | 26              |
| 16940.....    | 7            | A9C70114..... | 26              |
| 17400.....    | 106          | A9D31606..... | 18              |
| 18526.....    | 104          | A9D31610..... | 18              |
| 18527.....    | 104          | A9D31616..... | 18              |
| 18528.....    | 106          | A9D31620..... | 18              |
| 19091.....    | 101, 106     | A9D31625..... | 18              |
| 19096.....    | 101, 106     | A9D31632..... | 18              |
| 19512.....    | 93           | A9D31640..... | 18              |
| 19516.....    | 93           | A9D31716..... | 18              |
| 21089.....    | 93           | A9D31720..... | 18              |
| 21093.....    | 93           | A9D31725..... | 18              |
| 21094.....    | 93           | A9D31732..... | 18              |
| 21095.....    | 93           | A9D31740..... | 18              |
| 21096.....    | 93           | A9D33610..... | 18              |
| 21098.....    | 93           | A9D33616..... | 18              |
| 21501.....    | 93           | A9D33620..... | 18              |
| 21503.....    | 93           | A9D33716..... | 18              |
| 21505.....    | 93           | A9D33720..... | 18              |
| 21507.....    | 93           | A9D33725..... | 18              |
| 26970.....    | 104          | A9D33732..... | 18              |
| 26975.....    | 104          | A9D33740..... | 18              |
| 26976.....    | 104          | A9E15535..... | 83              |
| 26981.....    | 104          | A9E16065..... | 82              |
| 26996.....    | 104          | A9E18032..... | 91              |
| 26997.....    | 104          | A9E18070..... | 65              |
| 27001.....    | 104          | A9E18071..... | 65              |
| 27046.....    | 104          | A9E18072..... | 65              |
| 27047.....    | 104          | A9E18073..... | 65              |
| 27048.....    | 104          | A9E18074..... | 65              |
| 27053.....    | 69, 101, 106 | A9E18320..... | 86              |
| 27060.....    | 101, 106     | A9E21180..... | 84              |
| 27145.....    | 104          | A9F74102..... | 9               |
| A.....        |              | A9F74103..... | 9               |
| A9A15096..... | 63           | A9F74104..... | 9               |
| A9A15215..... | 88, 89       | A9F74106..... | 9               |
| A9A15216..... | 88, 89       | A9F74110..... | 9               |
| A9A15222..... | 88, 89       | A9F74116..... | 9               |
| A9A15306..... | 90           | A9F74120..... | 9               |
| A9A15310..... | 90           | A9F74125..... | 9               |
| A9A15320..... | 87           | A9F74132..... | 9               |
| A9A15921..... | 75, 76       | A9F74140..... | 9               |
| A9A15922..... | 75, 76       | A9F74150..... | 9               |
| A9A26380..... | 98           | A9F74163..... | 9               |
| A9A26381..... | 98           | A9F74201..... | 9               |
| A9A26476..... | 22           | A9F74202..... | 9               |
| A9A26477..... | 22           | A9F74203..... | 9               |
| A9A26478..... | 22           | A9F74204..... | 9               |
| A9A26500..... | 22           | A9F74206..... | 9               |
| A9A26924..... | 24, 59       | A9F74210..... | 9               |
| A9A26927..... | 24           | A9F74216..... | 9               |
| A9A26929..... | 24           | A9F74220..... | 9               |
| A9A26946..... | 22           | A9F74225..... | 9               |
| A9A26948..... | 22           | A9F74232..... | 9               |
| A9A26960..... | 22           | A9F74240..... | 9               |
| A9A26969..... | 22           | A9F74250..... | 9               |
| A9A26970..... | 98           | A9F74263..... | 9               |
| A9A26975..... | 100          | A9F74301..... | 9               |
| A9A26976..... | 100          | A9F74302..... | 9               |
| A9A26981..... | 100          | A9F74303..... | 9               |

|               |    |               |    |
|---------------|----|---------------|----|
| A9F74304..... | 9  | A9F84106..... | 10 |
| A9F74306..... | 9  | A9F84110..... | 10 |
| A9F74310..... | 9  | A9F84116..... | 10 |
| A9F74316..... | 9  | A9F84120..... | 10 |
| A9F74320..... | 9  | A9F84125..... | 10 |
| A9F74325..... | 9  | A9F84132..... | 10 |
| A9F74332..... | 9  | A9F84140..... | 10 |
| A9F74340..... | 9  | A9F84150..... | 10 |
| A9F74350..... | 9  | A9F84163..... | 10 |
| A9F74363..... | 9  | A9F84301..... | 10 |
| A9F74401..... | 9  | A9F84302..... | 10 |
| A9F74402..... | 9  | A9F84303..... | 10 |
| A9F74403..... | 9  | A9F84304..... | 10 |
| A9F74404..... | 9  | A9F84306..... | 10 |
| A9F74406..... | 9  | A9F84310..... | 10 |
| A9F74410..... | 9  | A9F84316..... | 10 |
| A9F74416..... | 9  | A9F84320..... | 10 |
| A9F74420..... | 9  | A9F84325..... | 10 |
| A9F74425..... | 9  | A9F84332..... | 10 |
| A9F74432..... | 9  | A9F84340..... | 10 |
| A9F74440..... | 9  | A9F84350..... | 10 |
| A9F74450..... | 9  | A9F84363..... | 10 |
| A9F74463..... | 9  | A9F94101..... | 11 |
| A9F75101..... | 9  | A9F94102..... | 11 |
| A9F75102..... | 9  | A9F94103..... | 11 |
| A9F75103..... | 9  | A9F94104..... | 11 |
| A9F75104..... | 9  | A9F94106..... | 11 |
| A9F75106..... | 9  | A9F94110..... | 11 |
| A9F75110..... | 9  | A9F94116..... | 11 |
| A9F75116..... | 9  | A9F94120..... | 11 |
| A9F75120..... | 9  | A9F94125..... | 11 |
| A9F75125..... | 9  | A9F94132..... | 11 |
| A9F75132..... | 9  | A9F94140..... | 11 |
| A9F75140..... | 9  | A9F94150..... | 11 |
| A9F75150..... | 9  | A9F94163..... | 11 |
| A9F75163..... | 9  | A9F94201..... | 11 |
| A9F75201..... | 9  | A9F94202..... | 11 |
| A9F75202..... | 9  | A9F94203..... | 11 |
| A9F75203..... | 9  | A9F94204..... | 11 |
| A9F75204..... | 9  | A9F94206..... | 11 |
| A9F75206..... | 9  | A9F94210..... | 11 |
| A9F75210..... | 9  | A9F94216..... | 11 |
| A9F75216..... | 9  | A9F94220..... | 11 |
| A9F75220..... | 9  | A9F94225..... | 11 |
| A9F75225..... | 9  | A9F94232..... | 11 |
| A9F75232..... | 9  | A9F94240..... | 11 |
| A9F75240..... | 9  | A9F94250..... | 11 |
| A9F75250..... | 9  | A9F94263..... | 11 |
| A9F75263..... | 9  | A9F94301..... | 11 |
| A9F75301..... | 9  | A9F94302..... | 11 |
| A9F75302..... | 9  | A9F94303..... | 11 |
| A9F75303..... | 9  | A9F94304..... | 11 |
| A9F75304..... | 9  | A9F94306..... | 11 |
| A9F75306..... | 9  | A9F94310..... | 11 |
| A9F75310..... | 9  | A9F94316..... | 11 |
| A9F75316..... | 9  | A9F94320..... | 11 |
| A9F75320..... | 9  | A9F94325..... | 11 |
| A9F75325..... | 9  | A9F94332..... | 11 |
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08-2017  
Document Number CA909006EN

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