

PRODUCT-DETAILS

S202-B50 S202-B50 Miniature Circuit Breaker - 2P - B - 50 A



General Information	
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Extended Product Type	S202-B50
Product ID	2CDS252001R0505
EAN	4016779550949
Catalog Description	S202-B50 Miniature Circuit Breaker - 2P - B - 50 A
Long Description	System pro M compact S200 miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space.

ABB EcoSolutions ABB EcoSolutions Yes

Circular Value	
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Sustainable Material Content	0 %
Offered with Extended Lifetime	Product Durability
Offered with Takeback	Take Back for Recycling

Services

Eco Transparency

Environmental Product 9AKK108467A7832
Declaration - EPD

Technical			
Standards	IEC/EN 60898-1		
	IEC/EN 60947-2 UL 1077		
Tripping Characteristic	В		
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC		
	acc. to IEC 60898-1 400 V acc. to IEC 60947-2 440 V AC		
Operational Voltage	Maximum (Incl. Tolerance) 125 V DC		
	Maximum (Incl. Tolerance) 440 V AC Minimum 12 V AC		
	Minimum 12 V DC		
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V		
Rated Impulse Withstand	4 kV		
Voltage (U _{imp})	at 2000 m 5 kV at Sea Level 6.2 kV		
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV		
Input Voltage Type	AC/DC		
Rated Current (I _n)	50 A		
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Rated Short-Circuit Capacity	(AC) 6 kA (DC) 6 kA		
	(400 V AC) 6 kA		
Date del Illaine and Object	(400 V) 6 kA		
Rated Ultimate Short- Circuit Breaking Capacity	(125 V DC) 10 kA (230 V AC) 20 kA		
(I _{cu})	(400 V AC) 10 kA		
	(440 V AC) 10 kA (48 V DC) 20 kA		
	(230 V) 20 kA		
	(400 V) 10 kA		
Rated Conditional Short- Circuit Current (I _{nc})	(230 V) 20 kA (400 V) 20 kA		
Rated Service Short-	(230 V AC) 15 kA		
Circuit Breaking Capacity	(400 V AC) 7.5 kA (440 V AC) 7.5 kA		
(I _{CS})			
Frequency (f) Rated Frequency (f)	50 Hz		
nateu Frequency (i)	50 60 Hz		
Power Loss	6.5 W		
Davier Supply Compation	at Rated Operating Conditions per Pole 3.25 W		
Power Supply Connection Contact Position	Arbitrary Red ON / Green OFF		
Indication	Red ON / Green OFF		
Energy Limiting Class	3		
Electrical Endurance	10000 AC cycle		
Mechanical Endurance	20000 cycle		
Number of Poles	2		
Number of Protected	2		
Poles			
Overvoltage Category	III		
Tightening Torque	2.8 N·m		
Mounting Type	DIN-Rail		
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal		
Actuator Marking	1/0		
Actuator Material	Insulation Group II, Black, Sealable		
Housing Material	Insulation Group II, RAL 7035		
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		
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TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715

Mounting Position	any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Busbar 10 / 10 mm² Flexible with Ferrule 0.75 25 mm² Flexible 0.75 25 mm² Flexible 0.75 35 mm² Rigid 0.75 35 mm² Stranded 0.75 35 mm²
Installation Size	acc. to DIN 43880 1
Wire Stripping Length	12.5 mm
Terminal Type	Screw Terminals

Environmental	
Ambient Air Temperature	Operation -25 +55 °C Storage -40 +70 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20 IP40 Enclosure with Cover IP40
Pollution Degree	3
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations acc. to IEC 60068-2-6	5g, 20 cycles at 5 150 5 Hz with load 0.8 In
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Information	2CDK403001D0607
REACH Declaration	9AKK107492A1906
SCIP	e6800e55-46b1-49a3-881b-0f66d0e903ad Germany (DE)
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	110 V DC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA	18 in·lb

Dimensions	
Width in Number of Modular Spacings	2
Product Net Width	35 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.25 kg
Pole Net Weight	0.125 kg
Built-In Depth (t ₂)	69 mm
Dimension Diagram	2CDC022007F0010

Minimum Order Quantity	1 piece		
Package Level 1 Units	carton 5 piece		
Package Level 1 Gross Weight	1.3 kg		
E-Number (Finland)	3210250		
E-Number (Sweden)	2100430		
Certificates and Declarations			
Certification Agency	En IE(U		
Declaration of Conformity - CE	2CDK403001D060		
Declaration of Conformity - UKCA	9AKK108467A50		
l²t Characteristic	9AKK107992A5103		
Installation			
Instructions and Manuals	2CDS207104P000		
Popular Downloads			
Data Sheet, Technical Information	9AKK107991A832		
<u>l²t Characteristic</u>	9AKK107992A5102		
Classifications			
ETIM 8	EC000042 - Miniature circuit breaker (MCB		
ETIM 9	EC000042 - Miniature circuit breaker (MCB		
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm		
WEEE B2C / B2B	Business To Busines		
CN8	8536 20 10		
UNSPSC	39121603		
eClass	V11.0 : 2714190		
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breaker		
Object Classification Code			

Accessories

Identifier	Description	Туре	Quantity	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Signal / Auxiliary Contact	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact	S2C-H6R	1	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L Auxiliary Contact	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary Contact	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary Contact	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary Contact	S2C-H6-02R	1	piece
2CDS200909R0001	S2C-A1 Shunt Trip	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 Shunt Trip	S2C-A2	1	piece
2CSS200911R0001	S2C-UA 12 DC Undervoltage Release S	S2C-UA 12 DC	1	piece
2CSS200911R0002	S2C-UA 24 AC Undervoltage Release S	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC Undervoltage Release S	S2C-UA 48 AC	1	piece
2CSS200911R0004	S2C-UA 110 AC Undervoltage Release	S2C-UA 110 AC	1	piece
2CSS200911R0005	S2C-UA 230 AC Undervoltage Release	S2C-UA 230 AC	1	piece
2CSS200911R0006	S2C-UA 400 AC Undervoltage Release	S2C-UA 400 AC	1	piece
2CSS200911R0007	S2C-UA 24 DC Undervoltage Release S	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC Undervoltage Release S	S2C-UA 48 DC	1	piece
2CSS200911R0009	S2C-UA 110 DC Undervoltage Release	S2C-UA 110 DC	1	piece
2CSS200911R0010	S2C-UA 230 DC Undervoltage Release	S2C-UA 230 DC	1	piece
2CSS201997R0013	S2C-CM1 Motor operating device	S2C-CM1	1	piece
2CSS203997R0013	S2C-CM2/3 Motor operating device	S2C-CM2/3	1	piece
2CSS204997R0013	S2C-CM4 Motor operating device	S2C-CM4	1	piece
GHS2001901R0003	S2C-DH Mechanical Accessories	S2C-DH	1	piece
2CSS200998R0001	S2C-BP Mechanical tripping device	S2C-BP	1	piece
2CSS200999R0001	S2C-EST Plug-in base	S2C-EST	1	piece
2CDS200918R0001	S2C-NT Hand Operated Neutral	S2C-NT	1	piece
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece

Categories

 $Low\ Voltage\ Products\ and\ Systems\ \rightarrow\ Modular\ DIN\ Rail\ Products\ \rightarrow\ Miniature\ Circuit\ Breakers\ MCBs$





