SIEMENS

Data sheet 3RH1131-2AP00-Z X95

CONTACTOR RELAY, 3NO+1NC, AC 220 V, 50 HZ, CAGE CLAMP CONNECTION, SIZE S00 REUSABLE PACKING PACKING = 144 UNITS

product brand name		SIRIUS
Product designation		contactor relay

General technical data:

Insulation voltage		
● with degree of pollution 3 Rated value	V	690
Degree of pollution		3
Shock resistance		10g / 5 ms and 5g / 10 ms
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
● of the contactor typical		30 000 000
● of the contactor with added electronics-compatible auxiliary switch block typical		5 000 000
● of the contactor with added auxiliary switch block typical		10 000 000
Protection class IP		
● on the front		IP20
Equipment marking		
● acc. to DIN EN 61346-2		K
● acc. to DIN EN 81346-2		K

Control circuit/ Control:

Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
● at 50 Hz Rated value	V	230
● at 60 Hz Rated value	V	230
● Rated value	Hz	50
Control supply voltage frequency 2 Rated value	Hz	60
Operating range factor control supply voltage rated value of the magnet coil with AC		
● at 50 Hz		0.8 ... 1.1
● at 60 Hz		0.85 ... 1.1
Apparent pick-up power of the magnet coil with AC	V·A	27
Apparent holding power of the magnet coil with AC	V·A	4.6
Inductive power factor		
● with closing power of the coil		0.8
● with the holding power of the coil		0.27

Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		1
— instantaneous contact		1
— delayed switching		0
— lagging switching		0
— make-before-break switching		0
Number of NO contacts		
• for auxiliary contacts		3
— instantaneous contact		3
— delayed switching		0
— leading contact		0
— make-before-break switching		0
Number of CO contacts		
• for auxiliary contacts		0
• of the auxiliary contacts instantaneous contact		0
Product expansion Auxiliary switch		Yes
Identification number and letter for switching elements		31 E
Operating current at AC-15		
• at 230 V Rated value	A	6
• at 400 V Rated value	A	3
• at 690 V Rated value	A	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the auxiliary switch required		fuse gL/gG: 10 A

Installation/ mounting/ dimensions:		
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type		screw and snap-on mounting
Height	mm	60
Width	mm	45
Depth	mm	73
Required spacing		
• with side-by-side mounting		
— at the side	mm	0

Connections/ Terminals:		
Type of electrical connection		

● for auxiliary and control current circuit		Cage Clamp terminals
Type of connectable conductor cross-section		
● for auxiliary contacts		
— solid		2x (0.25..... 2.5 mm²)
— finely stranded with core end processing		2x (0.25..... 1.5 mm²)
— finely stranded without core end processing		2x (0.25..... 2.5 mm²)
● for AWG conductors for auxiliary contacts		2x (24 ... 14)

Safety related data:

B10 value with high demand rate acc. to SN 31920		1 000 000
● Note		With 0.3 x Ie
Proportion of dangerous failures		
● with low demand rate acc. to SN 31920	%	40
● with high demand rate acc. to SN 31920	%	75
T1 value for proof test interval or service life acc. to IEC 61508	y	20
Protection against electrical shock		finger-safe

Mechanical data:

Size of contactor		S00

Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
● during operation	°C	-25 ... +60
● during storage	°C	-55 ... +80
● during transport	°C	-55 ... +80