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Data sheet 3RH2244-4AK60



Figure similar

CONTACTOR RELAY, 4NO+4NC, AC 110 V 50 HZ / 120 V 60 HZ, SZ S00,RINGCABLE LUG CONNECTION PERMANENT AUX. SWITCH, FOR SUVA APPLICATIONS

product brand name	SIRIUS
Product designation	contactor relay

General technical data:

Size of contactor	S00
Product expansion	
• Auxiliary switch	No
Insulation voltage	
• with degree of pollution 3 Rated value	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	
• on the front	IP00
Degree of pollution	3
Mechanical service life (switching cycles)	
• of the contactor typical	10 000 000
Equipment marking	
• acc. to DIN EN 61346-2	K
• acc. to DIN EN 81346-2	K

Ambient conditions:

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

Main circuit:

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No-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h

Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz Rated value	110 V
• at 60 Hz Rated value	120 V
• Rated value	50 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil at AC	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.85 ... 1.1
Apparent pick-up power of the magnet coil at AC	37 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of the magnet coil at AC	5.7 V·A
Inductive power factor with the holding power of the coil	0.25
Closing delay	
• at AC	8 ... 33 ms
Opening delay	
• at AC	4 ... 15 ms
Arcing time	10 ... 15 s

Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	4
— instantaneous contact	4
Number of NO contacts	
• for auxiliary contacts	4
— instantaneous contact	4
Identification number and letter for switching elements	44 E
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V Rated value	6 A
• at 400 V Rated value	3 A
• at 500 V Rated value	2 A
• at 690 V Rated value	1 A
Operating current with 1 current path at DC-12	
• at 24 V Rated value	10 A
• at 110 V Rated value	3 A

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• at 220 V Rated value	1 A
• at 440 V Rated value	0.3 A
• at 600 V Rated value	0.15 A
Operating current with 2 current paths in series at DC-12	
• at 24 V Rated value	10 A
• at 60 V Rated value	10 A
• at 110 V Rated value	4 A
• at 220 V Rated value	2 A
• at 440 V Rated value	1.3 A
• at 600 V Rated value	0.65 A
Operating current with 3 current paths in series at DC-12	
• at 24 V Rated value	10 A
• at 60 V Rated value	10 A
• at 110 V Rated value	10 A
• at 220 V Rated value	3.6 A
• at 440 V Rated value	2.5 A
• at 600 V Rated value	1.8 A
Operating frequency at DC-12 maximum	1 000 1/h
Operating current with 1 current path at DC-13	
• at 24 V Rated value	6 A
• at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
• at 440 V Rated value	0.14 A
• at 600 V Rated value	0.1 A
Operating current with 2 current paths in series at DC-13	
• at 24 V Rated value	10 A
• at 60 V Rated value	3.5 A
• at 110 V Rated value	1.3 A
• at 220 V Rated value	0.9 A
• at 440 V Rated value	0.2 A
• at 600 V Rated value	0.1 A
Operating current with 3 current paths in series at DC-13	
• at 24 V Rated value	10 A
• at 60 V Rated value	4.7 A
• at 110 V Rated value	3 A
• at 220 V Rated value	1.2 A
• at 440 V Rated value	0.5 A
• at 600 V Rated value	0.26 A

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Operating frequency at DC-13 maximum	1 000 1/h
Design of the miniature circuit breaker	
• for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
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 onto 35 mm standard mounting rail
Height	57.5 mm
Width	45 mm
Depth	116 mm
Required spacing	
• for grounded parts	
— at the side	6 mm
• for live parts	
— at the side	6 mm
Connections/ Terminals:	
Type of electrical connection	
• for auxiliary and control current circuit	ring cable connection
Safety related data:	
B10 value with high demand rate acc. to SN 31920	1 000 000; 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	73 %
Product function	
• positively driven operation acc. to IEC 60947-5-1	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Certificates/ approvals:	

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General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
CSA	UL	EAC	Baumusterbescheinigung	EG-Konf.	Typprüfbescheinigung/Werkszeugnis

Test Certificates	Shipping Approval				
spezielle Prüfbescheinigungen	ABS	BUREAU VERITAS	DNV	GL	LRS

Shipping Approval			other	
PRS	RINA	RMRS	Umweltbestätigung	VDE

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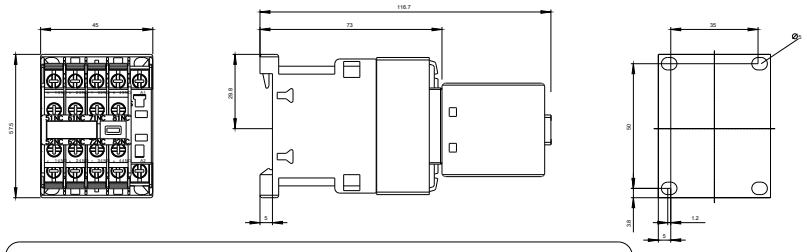
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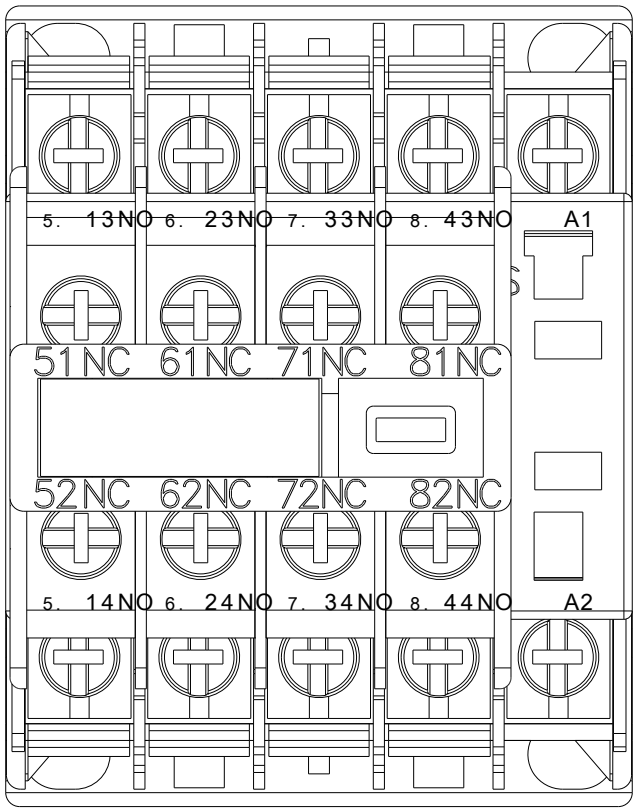
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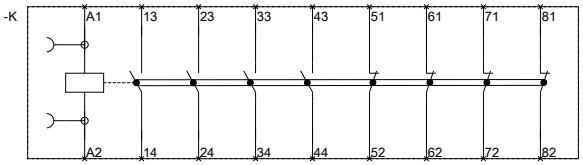
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