SIEMENS

Data sheet

3RH2422-1BJ80

Contactor relay, latched, 2 NO + 2 NC, DC 72 V, Size S00, screw terminal

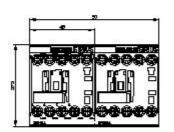


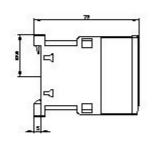
product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 8g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	5 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	5 000 000
reference code acc. to IEC 81346-2	К
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-25 +60 °C
 ambient temperature during storage 	-55 +80 °C
Main circuit	
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	DC
control supply voltage at DC	
 rated value 	72 V
operating range factor control supply voltage rated value of magnet coil at DC	
	0.8

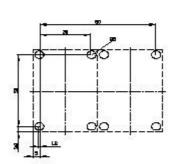
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	10 10 113
	0
number of NC contacts for auxiliary contacts instantaneous contact 	2 2
	2
number of NO contacts for auxiliary contacts	2
instantaneous contact identification number and letter for switching	22 E
elements	
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	10 A
 at 400 V rated value 	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at 1 current path at DC-12	
• at 24 V rated value	10 A
 at 110 V rated value 	3 A
 at 220 V rated value 	1 A
 at 440 V rated value 	0.3 A
 at 600 V rated value 	0.15 A
operational 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
operational 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
operational current at 1 current path at DC-13	
• at 24 V rated value	10 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
operational 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
operational current with 3 current paths in series at DC-13	

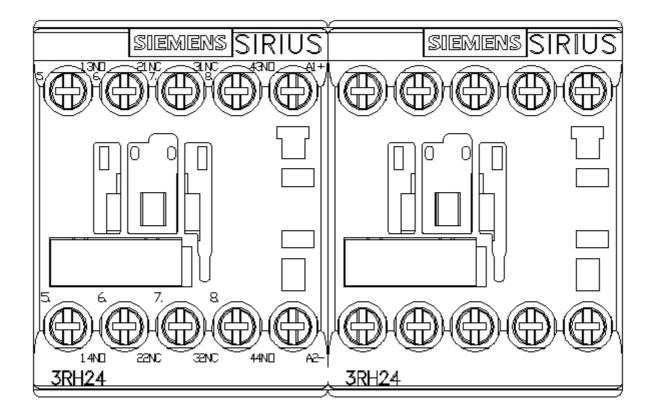
at 24 V rated value	10 A
at 60 V rated value	4.7 A
at 110 V rated value	3 A
• at 220 V rated value	1.2 A
 at 440 V rated value 	0.5 A
at 600 V rated value	0.26 A
operating frequency at DC-13 maximum	1 000 1/h
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
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
mounting position	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	57.5 mm
width	90 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
	10 mm
— upwards	6 mm
— at the side — downwards	
	10 mm
for live parts	10
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000; With 0.3 x le
proportion of dangerous failures	
• with low demand rate acc. to SN 31920	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
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 у
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	

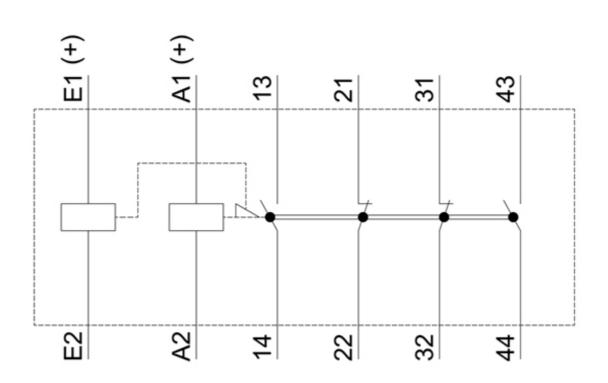
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Further characteristics (e.g. electrical endurance, switching frequency) <u>http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2422-1BJ80&objecttype=14&gridview=view1</u>					











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