SIEMENS

Data sheet

3RH2122-1BF40



Contactor relay, 2 NO + 2 NC, 110 V DC, Size S00, screw terminal

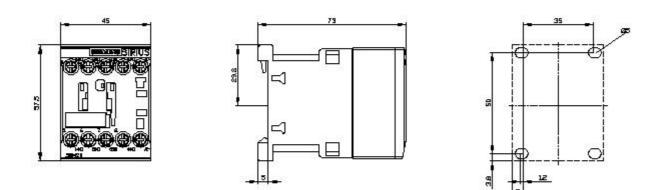
product brand name	SIRIUS				
product designation	Auxiliary contactor				
product type designation	3RH2				
General technical data					
size of contactor	S00				
product extension auxiliary switch	Yes				
insulation voltage with degree of pollution 3 at AC rated value	690 V				
degree of pollution	3				
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 	30 000 000				
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000				
 of the contactor with added auxiliary switch block typical 	10 000 000				
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	110 V				
operating range factor control supply voltage rated value of magnet coil at DC					
 initial value 	0.8				

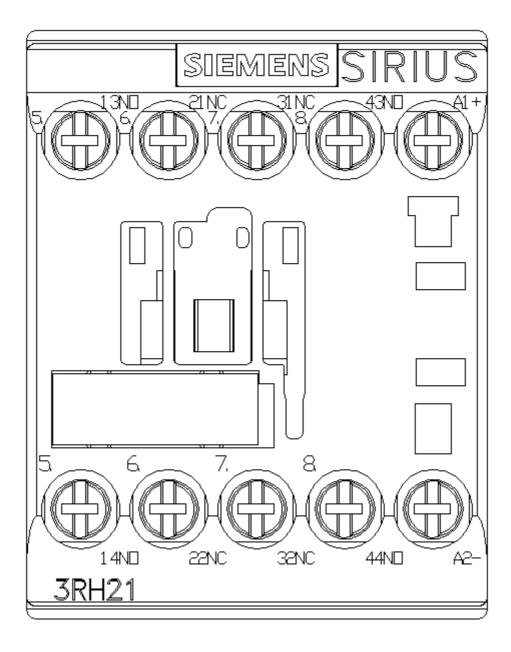
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
	2
number of NC contacts for auxiliary contacts instantaneous contact 	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	2
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	

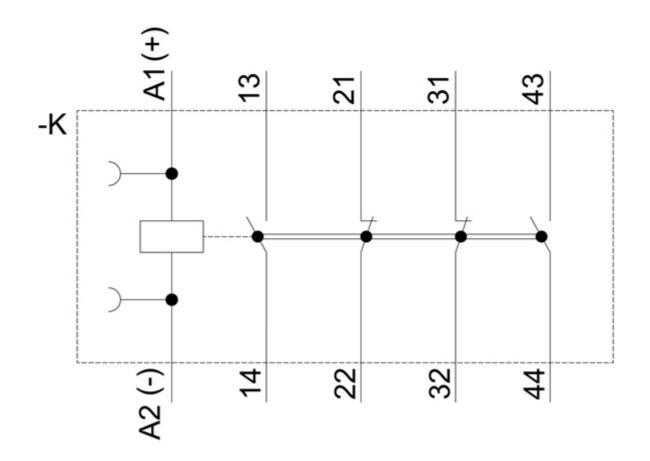
	10.4			
• at 24 V rated value	10 A			
at 60 V rated value	4.7 A			
at 110 V rated value	3 A			
 at 220 V rated value 	1.2 A			
at 440 V rated value	0.5 A			
at 600 V rated value	0.26 A			
operating frequency at DC-13 maximum	1 000 1/h			
design of the miniature circuit breaker for short-circuit protection 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	45 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			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
• for live parts				
— forwards	10 mm			
	10 mm			
— upwards — downwards	10 mm			
— at the side	6 mm			
	0 11111			
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 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ²			
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 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				

General Product Ap	oproval				EMC		
æ			KC		A		
S.				EHC	RCM		
Declaration of Cont	formity	Test Certificates		Marine / Shipping			
CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Special Test</u> Certificate	ABS	B UREAU VERITAS		
Marine / Shipping					other		
Lloyd's Register LRS	PRS	RINA	RMRS	DNV-GL DNV-GL DNV-GL	<u>Confirmation</u>		
other							
VDE							
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Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1BF40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-1BF40⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1BF40/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/cs/ww/en/ps/3RH2122-1BF40/char							

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