SIEMENS

Data sheet

3RH2122-2BF40



Contactor relay, 2 NO + 2 NC, 110 V DC, Size S00, Spring-type terminal

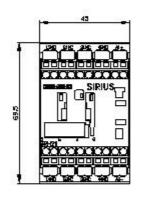
product brand name	SIRIUS					
product designation	Auxiliary contactor					
product type designation	3RH2					
General technical data	General technical data					
size of contactor	S00					
product extension auxiliary switch	Yes					
insulation voltage with degree of pollution 3 at AC rated value	690 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					
• full-scale value	1.1					

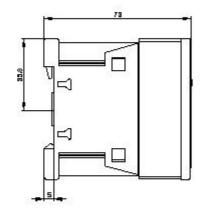
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
	2
number of NC contacts for auxiliary contacts instantaneous contact 	2
number of NO contacts for auxiliary contacts	2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

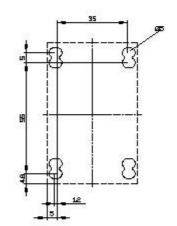
Certificates/ approvals	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front acc. to IEC 60529	IP20
T1 value for proof test interval or service life acc. to IEC 61508	20 у
product function positively driven operation acc. to IEC 60947-5-1	Yes
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
with high demand rate acc. to SN 31920	73 %
with low demand rate acc. to SN 31920	40 %
proportion of dangerous failures	
B10 value with high demand rate acc. to SN 31920	1 000 000; With 0.3 x le
Safety related data	
• at AWG cables for auxiliary contacts	2x (20 12)
- finely stranded without core end processing	2x (0.5 2.5 mm ²)
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)
— solid or stranded	2x (0,5 4 mm²)
for auxiliary contacts	
type of connectable conductor cross-sections	
type of electrical connection for auxiliary and control circuit	spring-loaded terminals
Connections/ Terminals	
— at the side	6 mm
— downwards	10 mm
— upwards	10 mm
 for live parts forwards 	10 mm
 Gownwards for live parts 	
— at the side — downwards	10 mm
— upwards — at the side	10 mm 6 mm
— forwards	10 mm 10 mm
for grounded parts forwards	10 mm
— at the side	0 mm
— downwards	10 mm
— upwards	10 mm
— forwards	10 mm
with side-by-side mounting	
required spacing	
depth	73 mm
width	45 mm
height	70 mm
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	forward and backward by +/- 22.5° on vertical mounting surface
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
Installation/ mounting/ dimensions	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Short-circuit protection	
contact rating of auxiliary contacts according to UL	A600 / Q600
UL/CSA ratings	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
protection of the auxiliary circuit up to 230 V	
design of the miniature circuit breaker for short-circuit	C characteristic: 6 A; 0.4 kA
operating frequency at DC-13 maximum	1 000 1/h
 at 440 V rated value at 600 V rated value 	0.5 A 0.26 A
at 220 V rated value at 440 V rated value	1.2 A 0.5 A
at 110 V rated value	3 A
at 60 V rated value	4.7 A
at 24 V rated value	
• at 24 V rated value	10 A

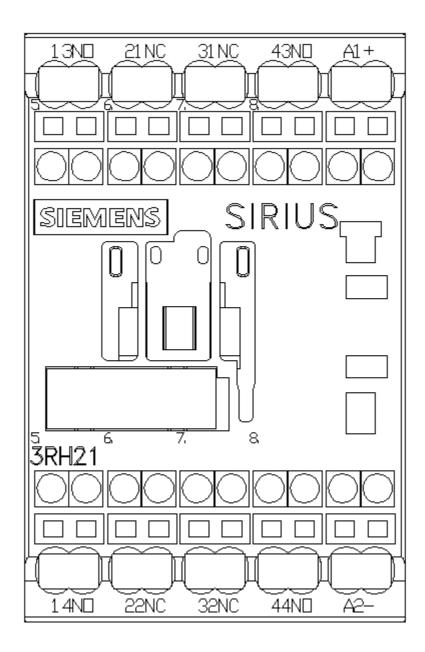
					540				
General Product App	roval				EMC				
		UL u	<u>KC</u>	EHC	RCM				
Declaration of Confo	rmity	Test Certificates		Marine / Shipping					
<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	BUREAU VERITAS				
Marine / Shipping					other				
Lloyds Register uis	PRS	RINA	KMRS		<u>Confirmation</u>				
other									
UDE VDE									
Further information									
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2122-2BF40 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-2BF40 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2BF40									
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-2BF40⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2BF40/char									
	Further characteristics (e.g. electrical endurance, switching frequency)								

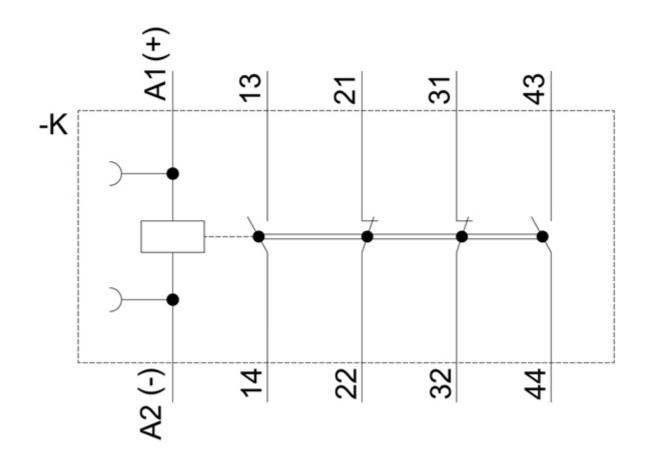
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2BF40&objecttype=14&gridview=view1











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