SIEMENS

Data sheet

3RH2122-1FB40

CONTACTOR RELAY, 2NO+2NC, DC 24V, W/ INTEGRATED DIODE, SIZE S00, SCREW TERMINAL



product brandname	SIRIUS
Product designation	contactor relay
General technical data	
Size of contactor	S00
Product extension	
 Auxiliary switch 	Yes
Insulation voltage	
 with degree of pollution 3 rated value 	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
Shock resistance	
 at rectangular impulse 	
— at DC	10g / 5 ms, 5g / 10 ms
• 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 electronics- compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical Equipment marking acc. to DIN EN 81346-2 K acc. to DIN EN 81346-2 K Arnbard conditions Installation attlude at height above sea level maximum during operation 45		
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Operating current at AC-15	Operating current at AC-12 maximum	10 A
	Operating 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
Operating 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
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 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
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				
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 	fuse gL/gG: 10 A				
required					
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	73 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 	screw-type terminals				
Type of connectable conductor cross-sections					
 for auxiliary contacts 					
— single or multi-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 conductors 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 31	920	73 %				
Failure rate [FIT]						
• with low demand rate acc. to SN 319	920	100 FIT				
Product function						
 positively driven operation acc. to IE 	 positively driven operation acc. to IEC 60947-5- 		Yes			
T1 value for proof test interval or service li IEC 61508	ife acc. to	20 у				
Certificates/approvals						
General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity		
		EHC	Baumusterbescheini gung	EG-Konf.		
Test Certificates	Shipping A	pproval				
Typprüfbescheinigu ng/Werkszeugnisspezielle Prüfbescheinigunge nng/WerkszeugnisPrüfbescheinigunge n	ABS	BUREAU VERITAS		GL		
Shipping Approval			other			
LRS PRS	RINA	RMRS	Umweltbestätigung	Bestätigungen		
other						
VDE						

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2122-1FB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-1FB40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1FB40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-1FB40&lang=en







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