SIEMENS

Product data sheet 3RH2122-4LB40



COUPLING CONTACTOR RELAY RAIL, 2NO+2NC, DC 24V, 0.7...1.25*US, VARISTOR INTEGRATED, SZ S00,RING CABLE LUG CONNEC.

General technical data:				
product brand name		SIRIUS		
Size of the contactor		S00		
Identification number and letter for switching elements		21		
Product extension / auxiliary switch		Yes		
Protection class IP / on the front		IP20		
Protection against electrical shock		finger-safe		
Degree of pollution		3		
Insulation voltage / with degree of pollution 3 / rated value	V	690		
Installation altitude / at a height over sea level / maximum	m	2,000		
Ambient temperature				
during storage	°C	-55 +80		
during operating	°C	-40 +7 0		
• note		Railway application: See catalog for rated conditions		
Shock resistance				
at rectangular impulse				
• at DC		10g / 5 ms, 5g / 10 ms		
at sine pulse				
• at DC		15g / 5 ms, 8g / 10 ms		
Impulse voltage resistance / rated value	kV	6		

Mechanical operating cycles as operating time	
of the contactor / typical	30,000,000
• of the contactor with added auxiliary switch block / typical	10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 	5,000,000

Control circuit/ Control:			
Design of the surge suppressor		with varistor	
Voltage type / of control feed voltage		DC	
Control supply voltage			
• for DC / rated value	V	24	
Operating range factor control supply voltage rated value / of the magnet coil			
• for DC		0.7 1.25	
Holding power / of the solenoid / for DC	W	2.8	
Pull-in power / of the solenoid / for DC	W	2.8	
Closing delay			
• at DC	ms	30 100	
Opening delay			
• at DC	ms	25 90	
Arcing time	s	10 15	

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		2
Operating current		
• at AC-12 / maximum	Α	10
• at AC-15		
• at 230 V / rated value	Α	10
• at 400 V / rated value	Α	3
at 500 V / rated value	Α	2
• at 690 V / rated value	Α	1
Operating current		
• with 1 current path / at DC-12		
at 24 V / rated value	Α	10
• at 110 V / rated value	Α	3
• at 220 V / rated value	Α	1
• at 440 V / rated value	Α	0.3
• at 600 V / rated value	А	0.15

• with 2 current paths in series / at DC-12		
• at 24 V / rated value	А	10
• at 60 V / rated value	Α	10
• at 110 V / rated value	Α	4
• at 220 V / rated value	Α	2
• at 440 V / rated value	Α	1.3
• at 600 V / rated value	Α	0.65
• with 3 current paths in series / at DC-12		
• at 24 V / rated value	А	10
• at 60 V / rated value	А	10
• at 110 V / rated value	А	10
• at 220 V / rated value	Α	3.6
• at 440 V / rated value	Α	2.5
• at 600 V / rated value	А	1.8
Operating current		
• with 1 current path / at DC-13		
• at 24 V / rated value	А	10
• at 110 V / rated value	А	1
• at 220 V / rated value	А	0.3
• at 440 V / rated value	А	0.14
• at 600 V / rated value	А	0.1
• with 2 current paths in series / at DC-13		
• at 24 V / rated value	А	10
• at 60 V / rated value	Α	3.5
• at 110 V / rated value	Α	1.3
• at 220 V / rated value	Α	0.9
• at 440 V / rated value	Α	0.2
• at 600 V / rated value	Α	0.1
• with 3 current paths in series / at DC-13		
• at 24 V / rated value	Α	10
• at 60 V / rated value	Α	4.7
• at 110 V / rated value	Α	3
• at 220 V / rated value	Α	1.2
• at 440 V / rated value	Α	0.5
• at 600 V / rated value	Α	0.26
Off-load operating frequency		
• at AC	1/h	10,000
• at DC	1/h	10,000
Frequency of operation		
• at AC-12 / maximum	1/h	1,000

• at AC-14 / maximum	1/h	1,000
• at AC-15 / maximum	1/h	1,000
at DC-12 / maximum	1/h	1,000
• at DC-13 / maximum	1/h	1,000

Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch		
• required	fuse gL/gG: 10 A	
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	

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	
Width	mm	45	
Height	mm	70	
Depth	mm	123	

Connections/ terminals:		
Design of the electrical connection		
• for auxiliary and control current circuit		ring cable connection

Certificates/ approvals:

General Product Approval	Declaration of Conformity	Test Certificates
		Special Test









Shipping Approval













Shipping Approval





other

Environmental Confirmations

UL/CSA ratings:

Contact rating designation / for auxiliary contacts / according to $\ensuremath{\mathsf{UL}}$

A600 / Q600

Safety related data:			
B10 value / with high demand rate			
according to SN 31920		1,000,000	
• note		With 0.3 x le	
T1 value / for proof test interval or service life			
according to IEC 61508	а	20	
Proportion of dangerous failures			
• with low demand rate / according to SN 31920	%	40	
• with high demand rate / according to SN 31920	%	73	
Failure rate [FIT] / with low demand rate			
according to SN 31920	FIT	100	
Product function / positively driven operation to IEC 60947-5-1		Yes	

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://mall.industry.siemens.com/

Cax online generator

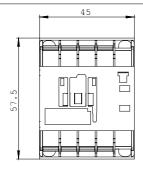
http://www.siemens.com/cax

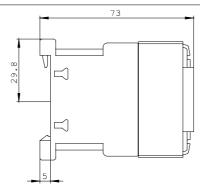
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

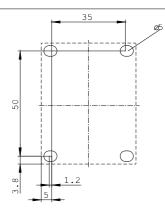
http://support.automation.siemens.com/WW/view/en/3RH2122-4LB40/all

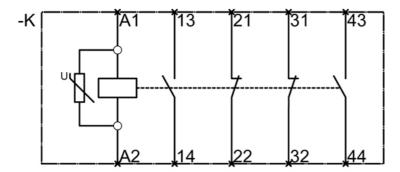
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2122-4LB40









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