SIEMENS

Product data sheet 3RH2122-2KF40



COUPLING CONTACTOR RELAY, 2NO+2NC, DC 110V, 0.7..1.25*US, W/ INTEGRATED SUPPRESSOR DIODE, SZ S00, SPRING-LOADED TERMINAL

General technical data:		
Product brand name		SIRIUS
Size of the contactor		S00
Identification number and letter for switching elements		22 E
Product extension / auxiliary switch		No
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
Ambient temperature / during operating	°C	-25 60
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

	with suppressor diode
	DC
.,	440
V	110
	0.7 1.25
W	2.8
W	2.8
ms	30 100
ms	25 90
S	10 15
	1 faulty switching per 100 million (17 V, 1 mA)
	2
	2
Α	10
Α	6
Α	3
A A	3 2
	ms ms s

Operating cu	ırrent
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 of the auxiliary contacts 	/ with 1	current path	/ at DC-12
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•
• at 24 V
• at 110 V
• at 220 V
with 2 current paths in series / at DC-12

with 2 current paths in series / at DC-12	
at 24 V / rated value	

• at 110 V / rated value
• at 220 V / rated value
• at 440 V / rated value

• at 600 V / rated value

• at 60 V / rated value

Α	10
Α	10

6 3

1

4

Α

A A

Α

A 2 A 1.3 A 0.65

• with 3 current paths in series / at DC-12		
• at 24 V / rated value	Α	10
• at 60 V / rated value	Α	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	Α	1.8
Operating current		
• of the auxiliary contacts / with 1 current path / at DC-13		
• at 24 V	Α	6
• at 110 V	Α	1
• at 220 V	Α	0.3
• with 2 current paths in series / at DC-13		
• at 24 V / rated value	Α	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, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)

Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	45
Height	mm	70
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sidewards	mm	0

Connections:		
Design of the electrical connection		
• for auxiliary and control current circuit	spring-loaded terminals	
Type of the connectable conductor cross-section		
• for auxiliary contacts		
• solid	2x (0.5 4 mm²)	
• finely stranded		
 with conductor end processing 	2x (0.5 2.5 mm²)	
 without conductor final cutting 	2x (0.5 2.5 mm²)	
 for AWG conductors / for auxiliary contacts 	2x (20 12)	

Certificates/approvals:

General Product Approval

Test Certificates





ROSTEST



Manufacturer

Shipping Approval







Regis





Shipping Approval

other





UL/CSA ratings:				
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600		
Safety:related Parameter:				
B10 value / with high demand rate				
according to SN 31920		1,000,000		
T1 value / for proof test interval or service life				

according to IEC 61508	а	10
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 value) / 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://www.siemens.com/industrial-controls/mall

Cax online generator:

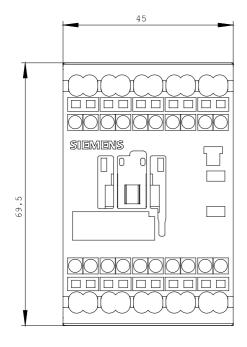
http://www.siemens.com/cax

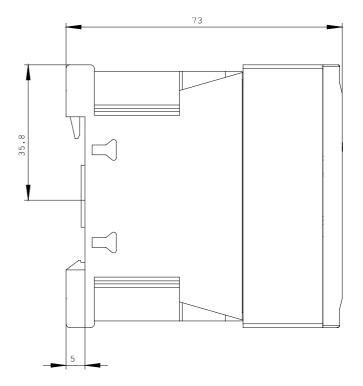
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

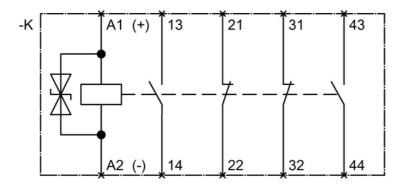
http://support.automation.siemens.com/WW/view/en/3RH2122-2KF40/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2122-2KF40}$







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