SIEMENS

Product data sheet

3RH2131-4AG60



CONTACTOR RELAY, 3NO+1NC, AC 100V 50HZ, 100..110V 60HZ, SZ S00,RINGCABLE LUG CONNECTION RING CABLE LUG CONNECTION

General technical data:

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Product brand name		SIRIUS
Size of the contactor		S00
Identification number and letter for switching elements		31 E
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
Ambient temperature / during operating	°C	-25 60
Shock resistance		
• at rectangular impulse		
• at AC		7,3g / 5 ms, 4,7g / 10 ms
• at sine pulse		
• at AC		11,4g / 5 ms, 7,3g / 10 ms
Impulse voltage resistance / rated value	kV	6
Mechanical operating cycles as operating time		
of the contactor / typical		30,000,000

a of the contenter with added a william quiteb black (tyrical		10 000 000		
of the contactor with added auxiliary switch block / typical		10,000,000		
 of the contactor with added electronics-compatible auxiliary switch block / typical 		10,000,000		
Control circuit:				
Type of voltage / of the controlled supply voltage		AC		
Control supply voltage / 1	-			
• at 50 Hz / for AC / rated value	V	100		
• at 60 Hz / for AC	V	100 110		
Operating range factor control supply voltage rated value / of the solenoid	-			
• at 50 Hz / for AC		0.8 1.1		
• at 60 Hz / for AC		0.85 1.1		
Apparent pull-in power / of the solenoid / for AC	V·A	37		
Apparent holding power / of the solenoid / for AC	V·A	5.7		
Inductive power factor	-			
• with the pull-in power of the coil		0.8		
• with the pull-in power of the coil		0.25		
Closing delay	-			
• at AC	ms	8 33		
Opening delay	-			
• at AC	ms	6 25		
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	_	3		
Operating current / of the auxiliary contacts / at AC-12 / maximum	A	10		
Operating current / of the auxiliary contacts / at AC-15				
• at 230 V	А	6		
• at 400 V	А	3		
• at 500 V	А	2		
• at 690 V	А	1		
Operating current				
• of the auxiliary contacts / with 1 current path / at DC-12				
• at 24 V	А	6		
• at 110 V	А	3		
• at 220 V	А	1		

• with 2 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	4
• at 220 V / rated value	А	2
• at 440 V / rated value	А	1.3
• at 600 V / rated value	А	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	А	3.6
• at 440 V / rated value	А	2.5
• at 600 V / rated value	А	1.8
Operating current	_	
• of the auxiliary contacts / with 1 current path / at DC-13		
• at 24 V	А	6
• at 110 V	А	1
• at 220 V	А	0.3
• with 2 current paths in series / at DC-13		
• at 24 V / rated value	А	10
• at 60 V / rated value	А	3.5
• at 110 V / rated value	А	1.3
• at 220 V / rated value	А	0.9
• at 440 V / rated value	А	0.2
• at 600 V / rated value	А	0.1
• with 3 current paths in series / at DC-13		
• at 24 V / rated value	А	10
• at 60 V / rated value	А	4.7
• at 110 V / rated value	А	3
• at 220 V / rated value	А	1.2
• at 440 V / rated value	А	0.5
• at 600 V / rated value	А	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-12 / maximum • at AC-14 / maximum	1/h 1/h	1,000 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 auxiliary switch	/ for short-circu	it protection of the				
• required				Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)		
Installation/mountin	g/dimensions:					
Built in orientation				vertical		
Type of mounting				screw and snap-or mounting rail	n mounting onto 35 mm standard	
Width			mm	45		
Height			mm	57.5		
Depth			mm	73		
Distance, to be maintai	ined, to the rank	s assembly / sidewards	mm	0		
Connections:						
Design of the electrica	I connection					
for auxiliary and control current circuit			ring cable connection			
0						
Certificates/approva						
Certificates/approva General Product App				Test Cer		
General Product App		<u>ROSTEST</u>		Test Cer Manufact		
_		<u>ROSTEST</u>	(U) UL			
General Product App		ROSTEST GL GL	UL UL LRS			
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General Product App CQC Shipping Approval ABS Shipping Approval UL/CSA ratings: Contact rating designar UL	roval	GL	LRS	Manufact		
General Product App CQC Shipping Approval CQC Shipping Approval Shipping Approval UL/CSA ratings: Contact rating designar UL Safety:related Param	roval	GL		Manufact		

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)

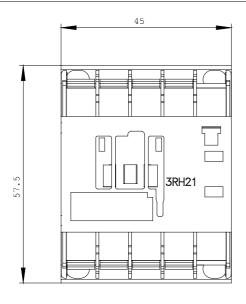
http://www.siemens.com/industrial-controls/mall

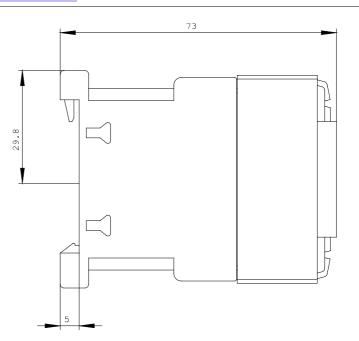
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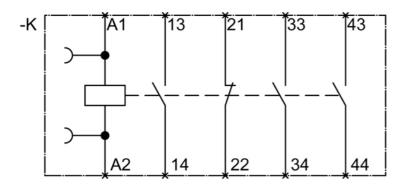
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RH2131-4AG60/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2131-4AG60







last change:

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