SIEMENS

Data sheet

3RH2122-1BF40



Contactor relay, 2 NO + 2 NC, 110 V DC, Size S00, screw terminal

product brand name	SIRIUS		
product designation	Auxiliary contactor		
product type designation	3RH2		
General technical data			
size of contactor	S00		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current without load current share typical	4 W		
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 (operating 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 according to IEC 81346-2	К		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 during operation 	-25 +60 °C		
during storage	-55 +80 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		
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	
number of NC contacts for auxiliary contacts	2
 instantaneous contact 	2
number of NO contacts for auxiliary contacts	2
 instantaneous contact 	2
identification number and letter for switching elements	22 E
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	1A
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	10.4
• at 24 V rated value	10 A
• at 60 V rated value	3.5 A
at 110 V rated value at 220 V rated value	1.3 A
at 220 V rated value at 440 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	10.4
at 24 V rated value at 60 V rated value	10 A
at 60 V rated value	4.7 A
at 110 V rated value	3 A 1 2 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

degree of the ministrue product up to 220 v C characteristic: 6.4; 0.4 kA contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) LCGA ratings A660 / C660 contact reliability of auxiliary contacts according to UL A660 / C660 biotedirectup products A660 / C660 contact reling of auxiliary contacts according to UL A660 / C660 biotedirectup products Fase gLigG: 10 A regine of the face link for short-intuit protection of the auxiliary switching products Fase gLigG: 10 A regine of the face link for short-intuit protection of the auxiliary switching surface. abs gLigG: 10 A regine of the face link for short-intuit protection of the auxiliary switching surface. abs gLigG: 10 A regine of the face link for short-intuit protection of the auxiliary switching surface. abs gLigG: 10 A regine of the face link for short-intuit protection of the auxiliary switching surface. abs gLigG: 10 A regine of the face link for short-intuit protection of the auxiliary switching surface. abs gLigG: 10 A regine of the face link for short-intuit protection of the auxiliary switching surface. abs gLigG: 10 A regine of the surface link for short-intuit protection of the auxiliary switching surface. abs gLigG: 10 A		4.000 4/6
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JLCSA raining i A600 / 0600 According for potection A600 / 0600 design of the fuse link for short-circuit protection of the auxilary surface results required south required sout	•	
contact rating of auxiliary contacts according to UL A800 / 0800 hotr-forcial protection fuse gLtgC: 10 A design of the fuse link for short-ficial protection of the auxiliary auxiliary contacts fuse gLtgC: 10 A mounting position ++180° rotation possible on vertical mounting surface; can be titled forward and backword by +/z 25 mm mounting position ++180° rotation possible on vertical mounting surface; can be titled forward and backword by +/z 25 mm mounting position 57 5 mm with asite-by-side mounting	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
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design of the fuse link for short-circuit protection of the auxiliary which required stabilition mounting dimensions mounting position fastening method height width depth fastening method screw and snap-on mounting surface; can be tilled forward and begint width depth - forwards - forwards - forwards - forwards - downwards - downwards - forwards - forwards	contact rating of auxiliary contacts according to UL	A600 / Q600
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mounting position +180° rotation possible on vertical mounting surface: can be tilted forward and backward by +/.22.5° on vertical mounting surface: fastening method screw and snap-on mounting onto 35 mm DUN rail height 75.5 mm depth 73 mm required spacing		fuse gL/gG: 10 A
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60947-5-1 Image: Constraint of the second secon	Safety related data	
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Certificates/ approvals		
General Product Approval	Certificates/ approvals	
	General Product Approval	







Confirmation



General Product Approval

EMC

Functional Safety/Safety of Ma-chinery

Declaration of Conformity

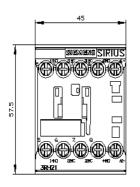
Test Certificates

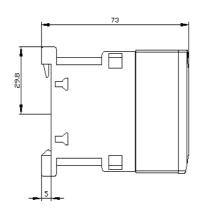
<u>KC</u>

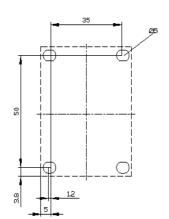
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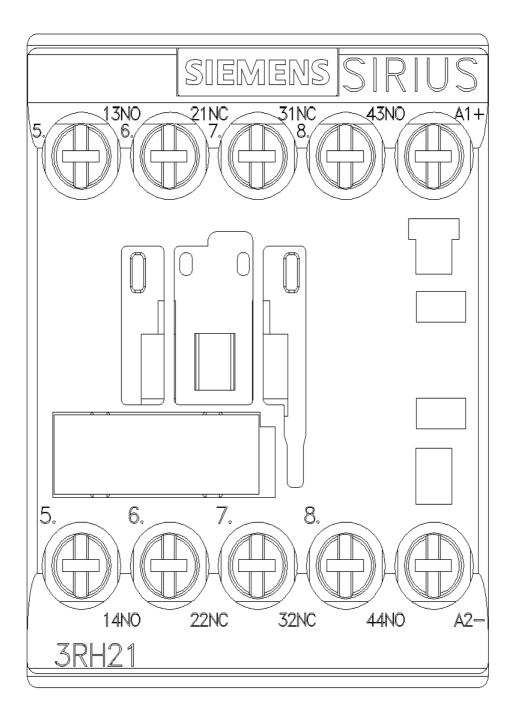
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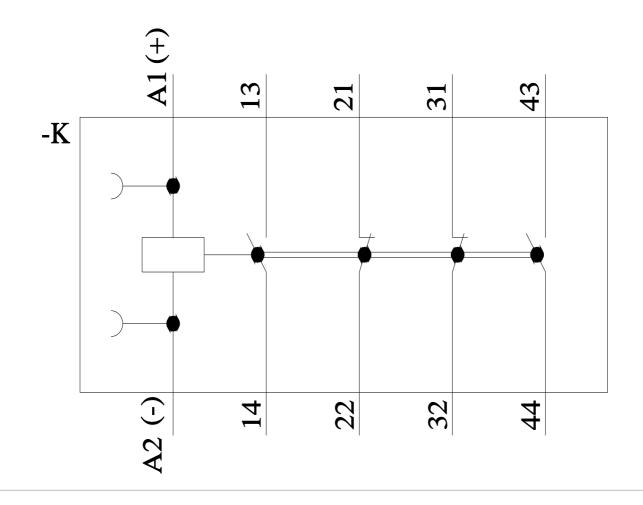
EHC	RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate			
Test Certificates	Marine / Shipping							
<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS		Llovd's Register uts	PRS			
Marine / Shipping		other		Railway	Dangerous Good			
RINA	RMRS	Household and similar appliances	<u>Confirmation</u>	<u>Vibration and Shock</u>	Transport Information			
Environment								
Environmental Con- firmations								
Further information	Further information							
	Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business							
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875								
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=3RH2122-1BF40 Cax online generator								
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-1BF40 Service&Support (Manuals, Certificates, Characteristics, FAQs,)								
<u>https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1BF40</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)								
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-1BF40⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1BF40/char								
Further characteristic	s (e.g. electrical endura	ance, switching frequency)						
http://www.automation.s	http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-1BF40&objecttype=14&gridview=view1							











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