SIEMENS

Data sheet

3RH2122-4BB40



Contactor relay, 2 NO + 2 NC, 24 V DC, Size S00, ring cable lug connection

product designation Auxiliary contactor product type designation 3RH2 General technical data		
product type designation 3RH2 Genoral technical data S00 groduct extension auxiliary switch Yes Insulation voltage with degree of pollution 3 at AC rated value 600 V degree of pollution 3 surge voltage resistance at ed value 6 kV shock resistance at rectangular impulse 6 kV at DC 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse 1 of contactor typical 30 000 000 of the contactor with added electronically optimized auxiliary switch block typical 100 0000 of the contactor with added auxiliary switch block typical 1000 0000 of the contactor with added auxiliary switch block typical 1000 000 auxiliary switch block typical 1000 000 auxiliary switch block typical 1000 000 of the contactor with added auxiliary switch block typical 1000 000 auxiliary switch block typical 1000 000 auxiliary switch block typical 1000 000 of the contactor with added auxiliary switch block typical 1000 000 auxiliary switch block typical 1000 000 auxiliary switch block typ	product brand name	SIRIUS
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	● at DC	15g / 5 ms, 8g / 10 ms
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Ambient conditions 2 000 m 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 95 % maximum 40 000 1/h Main circuit 0 000 1/h no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control 10 000 1/h type of voltage of the control supply voltage DC control supply voltage at DC 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	reference code according to IEC 81346-2	К
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 % no-load switching frequency 0 • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control 10 000 1/h type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	ambient temperature	
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maximum Main circuit Main circuit Main circuit no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control DC type of voltage of the control supply voltage DC control supply voltage at DC 0 • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	relative humidity minimum	10 %
Main circuit no-load switching frequency • at AC • at AC • at DC 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 24 V operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8 • full-scale value 1.1		95 %
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control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.1	Control circuit/ Control	
control supply voltage at DC 24 V o rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	type of voltage of the control supply voltage	DC
rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC initial value o.8 full-scale value 1.1		
magnet coil at DC • initial value • full-scale value 1.1		24 V
• full-scale value 1.1		
	● initial value	0.8
closing power of magnet coil at DC 4 W	• full-scale value	1.1
	closing power of magnet coil at DC	4 W

holding newsr of magnet coll at DC	4 10/
holding power of magnet coil at DC	4 W
closing delay	20 400 mg
• at DC	30 100 ms
opening delay	7 40
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	2
number of NC contacts for auxiliary contacts	2 2
instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact 	2
identification number and letter for switching elements	2 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	3A
at 500 V rated value	2 A
at 690 V rated value	1A
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	1A
• 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 at 110 V rated value	10 A
at 110 V rated value at 220 V rated value	1 A 0.3 A
 at 220 V rated value at 440 V rated value 	0.3 A 0.14 A
at 440 V rated value at 600 V rated value	0.14 A 0.1 A
operational 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
operational 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	C characteristic: 6 A; 0.4 kA

Type Examination Cer- tificate	CC <u>Type Test Certific-</u> <u>Special Test Cert</u> <u>ates/Test Report</u> <u>ate</u>
EMC Functional Safety/Safety of Ma- Declaration of chinery	Conformity Test Certificates
General Product Approval	EHC KG
ertificates/ approvals	
protection class IP on the front according to IEC 60529	IP00
T1 value for proof test interval or service life according to IEC 61508	20 a
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
 with high demand rate according to SN 31920 	73 %
with low demand rate according to SN 31920	40 %
proportion of dangerous failures	
60947-5-1 B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
afety related data product function positively driven operation according to IEC	Yes
type of electrical connection for auxiliary and control circuit	ring terminal lug connection
onnections/ Terminals	
— at the side	6 mm
— downwards	10 mm
— forwards — upwards	10 mm
for live parts forwards	10 mm
downwards	10 mm
— at the side	6 mm
— upwards	10 mm
— forwards	10 mm
 for grounded parts 	
— at the side	0 mm
— downwards	10 mm
— upwards	10 mm
— forwards	10 mm
with side-by-side mounting	
depth required spacing	73 11111
width	45 mm 73 mm
height	57.5 mm
fastening method	screw and snap-on mounting onto 35 mm DIN rail
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward a backward by +/- 22.5° on vertical mounting surface
design of the fuse link for short-circuit protection of the auxiliary switch required istallation/ mounting/ dimensions	fuse gL/gG: 10 A
hort-circuit protection	
contact rating of auxiliary contacts according to UL	A600 / Q600
_/CSA ratings	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)



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=3RH2122-4BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-4BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-4BB40

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

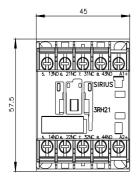
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-4BB40&lang=en

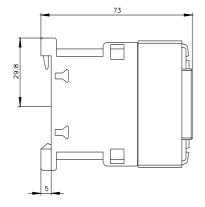
Characteristic: Tripping characteristics, I²t, Let-through current

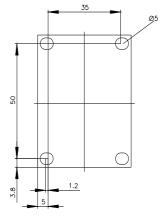
https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-4BB40/char

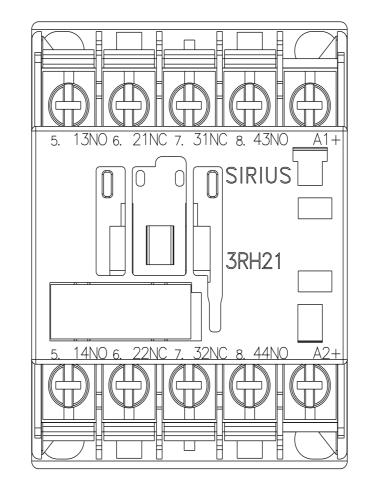
Further characteristics (e.g. electrical endurance, switching frequency)

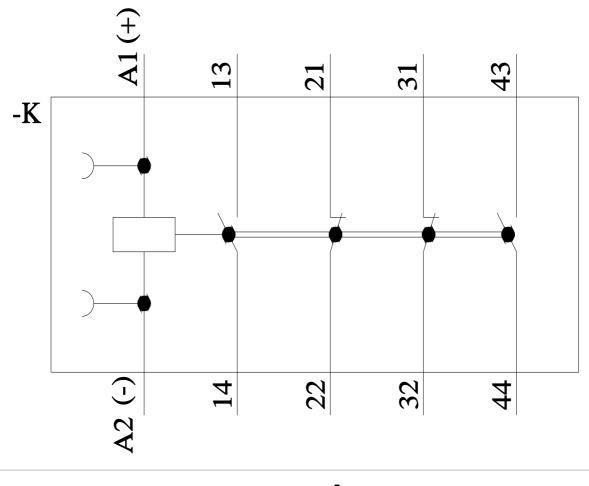
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-4BB40&objecttype=14&gridview=view1











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11/21/2022 🖸