SIEMENS

Data sheet 3RH2271-1BB40



contactor relay, 7 NO + 1 NC, 24 V DC, size S00, screw terminal, captive auxiliary switch

product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	No
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	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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	133 kg
Global Warming Potential [CO2 eq] during manufacturing	1.57 kg
Global Warming Potential [CO2 eq] during operation	132 kg
Global Warming Potential [CO2 eq] after end of life	-0.2 kg
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	24 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
<u> </u>	4 VV
closing delay • at DC	30 100 ms
	30 100 HIS
opening delay • at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	10 13 1113
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	7
instantaneous contact	7
	71 E
identification number and letter for switching elements operational current at AC-12 maximum	10 A
<u> </u>	10 A
operational current at AC-15 • at 230 V rated value	6 A
at 230 V rated value at 400 V rated value	3 A
at 400 V rated value at 500 V rated value	2 A
at 500 V rated value at 690 V rated value	1A
operational current at 1 current path at DC-12	10
• at 24 V rated value	10 A
	3 A
 at 110 V rated value 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	0.13 A
• at 24 V rated value	10 A
at 60 V rated value	10 A
at 100 V rated value 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	0.03 A
• at 24 V rated value	10 A
at 60 V rated value	10 A
at 110 V rated value 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
operating frequency at 50-12 maximum operational current at 1 current path at DC-13	
at 24 V rated value	6 A
at 110 V rated value	1 A
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	
• 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
3111011310013140	

1.2 A 0.5 A 0.26 A
1 000 1/h
C characteristic: 6 A; 0.4 kA
1 faulty switching per 100 million (17 V, 1 mA)
A600 / Q600
fuse gL/gG: 10 A
+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
screw and snap-on mounting onto 35 mm DIN rail
57.5 mm
45 mm
117 mm
10 mm
10 mm
10 mm
0 mm
10 mm
10 mm
6 mm
10 mm
10 mm
10 mm
10 mm
6 mm
screw-type terminals
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
2x (20 16), 2x (18 14), 2x 12
40 %
73 %
100 FIT
1 000 000; With 0.3 x le
Yes
20 a
IP20
finger-safe, for vertical contact from the front
-







Confirmation





General Product Approval

EMV

Test Certificates

Marine / Shipping

<u>KC</u>





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping













other

Dangerous Good

Environment

Miscellaneous

Confirmation

Transport Information

EPD Typ II/III (with life cylce assessment)

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=3RH2271-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2271-1BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2271-1BB40

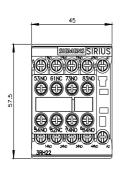
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

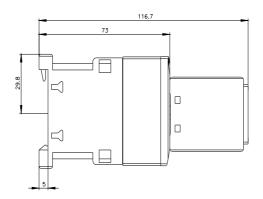
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2271-1BB40&lang=en

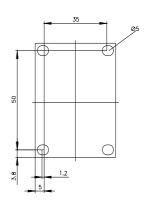
Characteristic: Tripping characteristics, I2t, Let-through current

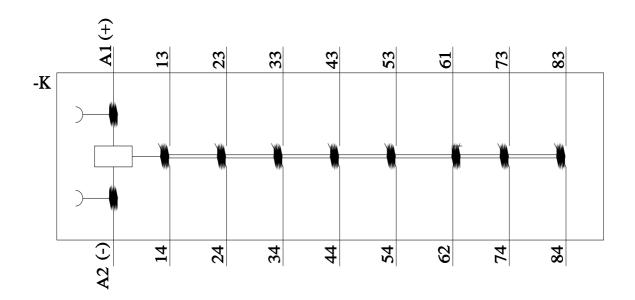
https://support.industry.siemens.com/cs/ww/en/ps/3RH2271-1BB40/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2271-1BB40&objecttype=14&gridview=view1









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