SIEMENS

Data sheet 3RH2344-1DG40



Contactor relay with auxiliary switch 125 V DC Size S00, screw terminal, 4 NC basic unit / EN Varistor plugged on

product brand name	SIRIUS	
product designation	Auxiliary contactor	
product type designation	3RH2	
General technical data		
size of contactor	S00	
product extension auxiliary switch	No	
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	K	
Substance Prohibitance (Date)	07/01/2006	
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	125 V	
operating range factor control supply voltage rated value of magnet coil at DC		
• initial value	0.8	
• full-scale value	1.1	
design of the surge suppressor	with varistor	
closing power of magnet coil at DC	4 W	
holding power of magnet coil at DC	4 W	
closing delay		

e at DC 713 ms 713 ms 1015 ms Auxiliary circuit 1015 ms Auxiliary circuit 1015 ms 1	
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• 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 0.1 A	
• at 600 V rated value 0.1 A operational current with 3 current paths in series at DC-13	
operational current with 3 current paths in series at DC-13 • at 24 V rated value 10 A	
• at 24 V rated value • at 60 V rated value 4.7 A	
• at 100 V rated value 4.7 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	
of the auxiliary circuit up to 230 V	
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	

UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward an backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	57.5 mm
width	45 mm
depth	117 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
Safety related data	
product function positively driven operation according to IEC 60947-5-1	Yes
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
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] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	EMC





Confirmation

<u>KC</u>





Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping other









Confirmation



Railway Dangerous Good

<u>Vibration and Shock</u> <u>Transport Information</u>

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=3RH2344-1DG40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH2344-1DG40}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2344-1DG40

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

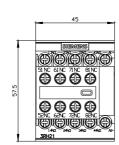
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2344-1DG40&lang=en

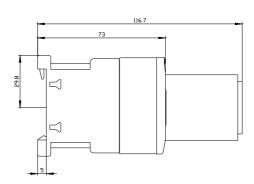
Characteristic: Tripping characteristics, I2t, Let-through current

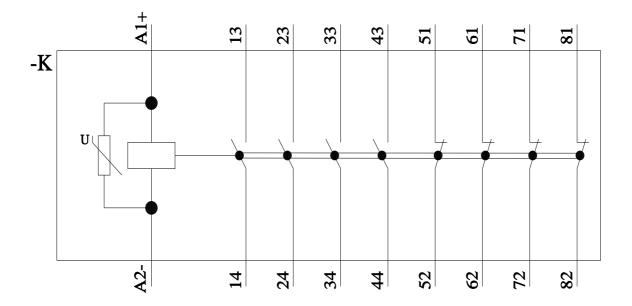
https://support.industry.siemens.com/cs/ww/en/ps/3RH2344-1DG40/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2344-1DG40&objecttype=14&gridview=view1







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