SIEMENS

Data sheet

3RH2244-4BG40



contactor relay, 4 NO + 4 NC, 125 V DC, size S00, ring cable lug connection, 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
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 %
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
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	4		
 instantaneous contact 	4		
number of NO contacts for auxiliary contacts	4		
 instantaneous contact 	4		
identification number and letter for switching elements	44 E		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
• at 230 V rated value	6 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	6 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 operational current with 2 current paths in series at DC-13	0.1 A		
• at 24 V rated value	10 A		
at 24 V rated value at 60 V rated value	3.5 A		
at 50 V rated value at 110 V rated value	1.3 A		
at 220 V rated value	0.9 A		
at 440 V rated value	0.9 A 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	3A		
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 of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			

	fuse al /aG: 10 A		
	TUSE 01 /0(-; 1() A		
switch required	fuse gL/gG: 10 A		
nstallation/ mounting/ dimensions			
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 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	ring terminal lug connection		
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	IP00		
Certificates/ approvals	IFUU		
General Product Approval			
	ሠ	<u>KC</u>	FAC
CSA CCC	UL		LIIL
Functional			
EMC Safety/Safety of Ma- Declaration of C chinery	conformity	Test Certificates	
tificate CE	UK	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
RCM EG-Konf.			



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=3RH2244-4BG40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2244-4BG40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-4BG40

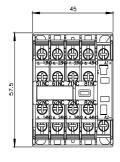
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

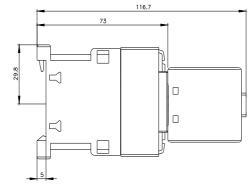
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2244-4BG40&lang=en

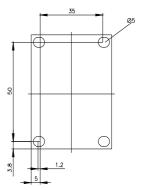
Characteristic: Tripping characteristics, I²t, Let-through current

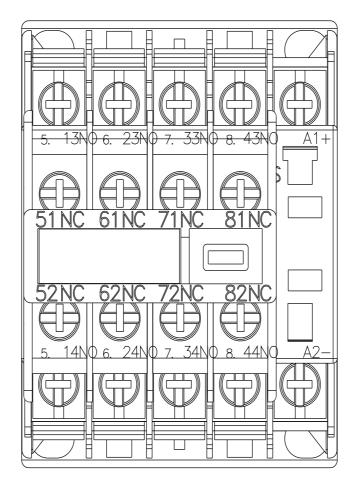
https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-4BG40/char

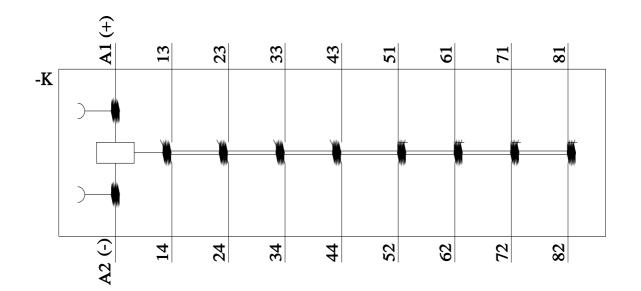
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2244-4BG40&objecttype=14&gridview=view1











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