SIEMENS

Data sheet 3RH2244-4AW20



contactor relay, 4 NO + 4 NC, 480 V AC, 50 / 60 Hz, 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 AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
reference code according to IEC 81346-2	K
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	AC
control supply voltage at AC	
 at 50 Hz rated value 	480 V
 at 60 Hz rated value 	480 V
control supply voltage frequency	
1 rated value	50 Hz
• 2 rated value	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1

annarant nick up newer of magnet soil of AC	37 \/\
apparent pick-up power of magnet coil at AC	37 VA
inductive power factor with closing power of the coil apparent holding power of magnet coil at AC	0.8 5.7 VA
inductive power factor with the holding power of the	0.25
coil	0.20
closing delay	
• at AC	8 33 ms
opening delay	
• at AC	4 15 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	40.4
at 24 V rated value at 110 V rated value	10 A
at 110 V rated value at 220 V rated value	3 A
 at 220 V rated value at 440 V rated value 	1 A 0.3 A
	0.15 A
at 600 V rated value Operational current with 2 current paths in series at	0.13 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	6.4
 at 24 V rated value at 110 V rated value 	6 A
at 110 V rated value at 220 V rated value	1 A 0.3 A
at 440 V rated value at 440 V rated value	0.3 A 0.14 A
at 600 V rated value	0.14 A 0.1 A
operational current with 2 current paths in series at	V.17
DC-13 • at 24 V rated value	10 A
at 24 V rated value at 60 V rated value	3.5 A
at 110 V rated value at 110 V rated value	1.3 A
at 220 V rated value	0.9 A
• at 440 V rated value	0.2 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 110 v rateu value	٥n

• at 220 V rated value 1.2 A 0.5 A • at 440 V rated value • 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 C characteristic: 6 A: 0.4 kA protection 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 fuse gL/gG: 10 A auxiliary switch required Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted mounting position forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm standard mounting rail 57.5 mm height width 45 mm depth 117 mm required spacing • with side-by-side mounting 10 mm - forwards - upwards 10 mm - downwards 10 mm - at the side 0 mm · for grounded parts forwards 10 mm 10 mm - upwards - at the side 6 mm downwards 10 mm · for live parts - forwards 10 mm 10 mm - upwards 10 mm - downwards — at the side 6 mm type of electrical connection for auxiliary and control circuit ring terminal lug connection Safety related data product function positively driven operation according to Yes IEC 60947-5-1 B10 value with high demand rate according to SN 31920 1 000 000; With 0.3 x le proportion of dangerous failures 40 % with low demand rate according to SN 31920 • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 100 FIT 31920 T1 value for proof test interval or service life according to 20 y IEC 61508 protection class IP on the front according to IEC IP00 60529 Certificates/ approvals **General Product Approval** Confirmation KC











Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Further information

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=3RH2244-4AW20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2244-4AW20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-4AW20

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

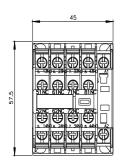
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2244-4AW20&lang=en

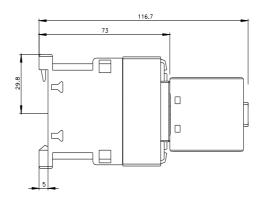
Characteristic: Tripping characteristics, I2t, Let-through current

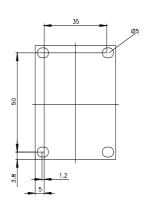
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-4AW20/char}$

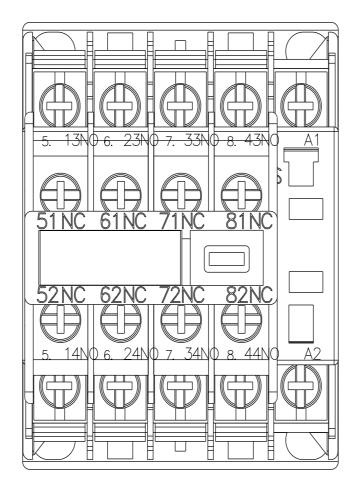
Further characteristics (e.g. electrical endurance, switching frequency)

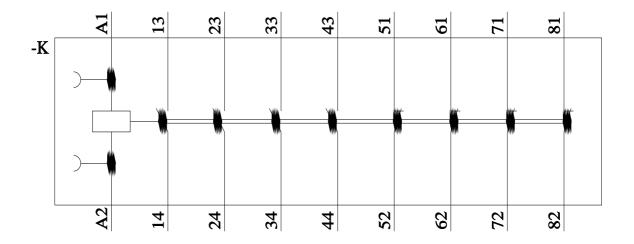
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2244-4AW20&objecttype=14&gridview=view1











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