SIEMENS

Data sheet 3RH2262-4AM20



Contactor relay, 6 NO + 2 NC, 208 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 	208 V
at 60 Hz rated value	208 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		
apparent plck-up power of magnet coll at AC		
Inductive power factor with closing power of the coil apparent holding power of magnet coil at AC 57 VA inductive power factor with the holding power of the coil inductive power factor with the holding power of the coil elosing delay * at AC 8 33 ms opening delay * at AC 4 15 ms arcing time 10 15 ms Auxillary circuit number of NC contacts for auxillary contacts 2 * instantaneous contact 2 * instantaneous contact 6 * instantaneous contact 6 * instantaneous contact 6 * instantaneous contact 6 * instantaneous contact 7 * instantaneous contact 8 * instantaneous contact 9 * at 300 V rated value 9 * at 200 V rated value 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 20 A operational current at AC-12 maximum 10 A operational current at 1 current path at DC-12 * at 24 V rated value 1 A operational current at 1 current path at DC-12 * at 24 V rated value 1 A * at 400 V rated value 1 A * at		
Inductive power factor with the holding power of the coll closing delay		37 VA
Inductive power factor with the holding power of the coil closing delay • at AC •	inductive power factor with closing power of the coil	0.8
Coling delay - at AC		5.7 VA
e at AC	•	0.25
Opening delay	closing delay	
arcing time 10 15 ms Auxillary circuit number of NC contacts for auxiliary contacts • instantaneous contact 2 • instantaneous contact 6 • identification number and letter for switching elements operational current at AC-12 maximum 10 A operational current at AC-15 • at 230 V rated value 6 A • at 300 V rated value 2 A • at 690 V rated value 1 A • at 690 V rated value 1 A • at 110 V rated value 1 A • at 220 V rated value 1 A • at 240 V rated value 1 A • at 440 V rated value 1 A • at 400 V rated value 1 A • at 500 V rated value 1 A • at 600 V rated value 10 A • at 600 V rated	• at AC	8 33 ms
arcing time	opening delay	
Number of NC contacts for auxiliary contacts 2	• at AC	4 15 ms
number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 number of NC contacts for auxiliary contacts 6 instantaneous contact 6 identification number and letter for switching elements 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 2 A • at 500 V rated value 1 A • at 500 V rated value 1 A • at 400 V rated value 1 A • at 220 V rated value 1 A • at 100 V rated value 1 A • at 220 V rated value 1 A • at 40 V rated value 0.3 A • at 40 V rated value 0.3 A • at 220 V rated value 0.15 A • at 40 V rated value 0.3 A • at 600 V rated value 0.15 A • at 220 V rated value 0.15 A • at 220 V rated value 1 A • at 440 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 2 A • at 220 V rated value 3 A • at 320 V rated value 4 A • at 440 V rated value 4 A • at 440 V rated value 4 A • at 440 V rated value 4 A • at 220 V rated value 4 A • at 220 V rated value 1.3 A • at 600 V rated val	arcing time	10 15 ms
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact instantaneous contact identification number and letter for switching elements	Auxiliary circuit	
number of NO contacts for auxiliary contacts	number of NC contacts for auxiliary contacts	2
identification number and letter for switching elements operational current at AC-12 maximum operational current at AC-15 i at 230 V rated value at 400 V rated value at 690 V rated value i at 690 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 250 V rated value i at 220 V rated value at 240 V rated value at 240 V rated value i at 220 V rated value at 240 V rated value i at 220 V rated value i at 220 V rated value at 220 V rated value i at 220 V rated value at 400 V rated value i at 220 V rated value i at 220 V rated value at 400 V rated value i at 220 V rated value i at 24 V rated value i at 24 V rated value i at 24 V rated value i at 20 V rated value i at 40 V rated value i 40 A i 41 V rated value i 50 A operational current at 1 current path at DC-13 operating frequency at DC-12 maximum operational current at 1 current path at DC-13		2
• instantaneous contact 6 identification number and letter for switching elements 7 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 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 1 A • at 220 V rated value 1 A • at 220 V rated value 0.3 A • at 240 V rated value 0.3 A • at 240 V rated value 0.15 A • at 240 V rated value 0.15 A • at 440 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 60 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 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 60 V rated value 2.5 A • at 400 V rated value 10 A • at 400 V rated value 10 A • at 400 V rated value 10 A • at 400 V rated value 2.5 A • at 400 V rated value 2.5 A • at 600 V rated value 2.5 A • at 600 V rated value 2.5 A • at 600 V rated value 3.6 A • at 24 V rate	number of NO contacts for auxiliary contacts	6
Operational current at AC-12 maximum	-	6
operational current at AC-15		62 E
 at 230 V rated value at 400 V rated value at 4500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 10 A at 110 V rated value at 220 V rated value at 240 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 27 V rated value at 20 V rated value at 3 A at 600 V rated value at 600 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 600 V rated value at 20 V rated	operational current at AC-12 maximum	10 A
 at 400 V rated value at 500 V rated value at 690 V rated value 1 A operational current at 1 current path at DC-12 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 10 A at 24 V rated value at 24 V rated value at 24 V rated value at 10 A at 110 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 200 V rated value at 400 V rated value at 25 A at 600 V rated value at 24 V rated value 		
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• at 690 V rated value 10 A 9 at 24 V rated value 10 A 9 at 220 V rated value 10 A 9 at 220 V rated value 10 A 9 at 24 V rated value 10 A 9 at 220 V rated value 10 A 9 at 24 V rated value 10 A 9 at 600 V rated value 10 A 10	at 400 V rated value	3 A
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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 10 A • 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 A	at 600 V rated value	0.15 A
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 at 440 V rated value at 600 V rated value 0.65 A Operational current with 3 current paths in series at DC-12 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 24 V rated value 6 A 	at 110 V rated value	4 A
 at 600 V rated value operational current with 3 current paths in series at DC-12 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 25 A at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value 6 A 	at 220 V rated value	2 A
operational current with 3 current paths in series at DC-12 • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 220 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 600 V rated value 1.8 A operating frequency at DC-12 maximum operational current at 1 current path at DC-13 • at 24 V rated value 6 A	at 440 V rated value	1.3 A
OC-12 • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value 6 A	at 600 V rated value	0.65 A
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 at 440 V rated value at 600 V rated value 1.8 A operating frequency at DC-12 maximum operational current at 1 current path at DC-13 at 24 V rated value 6 A 	at 110 V rated value	10 A
 at 600 V rated value operating frequency at DC-12 maximum operational current at 1 current path at DC-13 at 24 V rated value 6 A 	at 220 V rated value	3.6 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 440 V rated value	2.5 A
operational current at 1 current path at DC-13 • at 24 V rated value 6 A	at 600 V rated value	1.8 A
• at 24 V rated value 6 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 1 A	 at 110 V rated value 	1 A
• at 220 V rated value 0.3 A	 at 220 V rated value 	0.3 A
• at 440 V rated value 0.14 A	• at 440 V rated value	0.14 A
at 600 V rated value 0.1 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 24 V rated value 	10 A
• at 60 V rated value 3.5 A	at 60 V rated value	3.5 A
• at 110 V rated value 1.3 A	at 110 V rated value	1.3 A
• at 220 V rated value 0.9 A	at 220 V rated value	0.9 A
• at 440 V rated value 0.2 A	• at 440 V rated value	0.2 A

at COO Marta division	0.4.4
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 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	
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
Installation/ 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 standard mounting 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	
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 y
protection class IP on the front according to IEC 60529	IP00
Certificates/ approvals	
General Product Approval	





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination **Certificate**





Type Test Certificates/Test Report

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

Marine / Shipping













Marine / Shipping

other



Confirmation



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=3RH2262-4AM20

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH2262-4AM20}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2262-4AM20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2262-4AM20&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2262-4AM20/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2262-4AM20&objecttype=14&gridview=view1

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