SIEMENS

Data sheet

3RH2122-1AU00



Contactor relay, 2 NO + 2 NC, 240 V AC, 50 / 60 Hz, Size S00, screw terminal

product brand name	SIRIUS		
product designation	Auxiliary contactor		
product type designation	3RH2		
General technical data			
size of contactor	S00		
product extension auxiliary switch	Yes		
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 	30 000 000		
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000		
 of the contactor with added auxiliary switch block 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	AC		
control supply voltage at AC			
• at 50 Hz rated value	240 V		
• at 60 Hz rated value	240 V		

50 Hz
60 Hz
0.8 1.1
0.85 1.1
37 VA
0.8
5.0 5.7 VA
0.25
0.20
8 33 ms
4 15 ms
10 15 ms
2
2
2
2
22 E
10 A
10 A
3 A
2 A
1 A
10 A
3 A
1 A
0.3 A
0.15 A
10 A
10 A
4 A
2 A
1.3 A
0.65 A
10 A
10 A
10 A
3.6 A
2.5 A
1.8 A
1 000 1/h
10 A
1 A
0.3 A
0.14 A
0.1 A
10 A

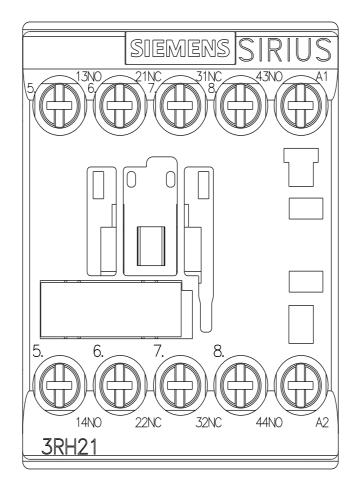
a at CO V rated value	254		
 at 60 V rated value at 110 V rated value 	3.5 A 1.3 A		
at 220 V rated value	0.9 A		
at 440 V rated value	0.9 A		
at 600 V rated value	0.1 A		
operational current with 3 current paths in series at DC-13			
at 24 V rated value	10 A		
at 24 V rated value	4.7 A		
at 110 V rated 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			
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection	A0007 Q000		
design of the fuse link for short-circuit protection of the	fuse gL/gG: 10 A		
auxiliary switch required	luse gl/gG. TO 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	73 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	40		
— forwards	10 mm 10 mm		
— upwards — 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 mm ²), 2x (0.75 2.5 mm ²)		
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12		
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		IP20			
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
ertificates/ appro	vals				
General Product	Approval				
(Sp)	<u>Confirmation</u>			<u>KC</u>	EAC
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>		CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific</u> ates/Test Report
Marine / Shipping	g				
ABS	B U REAU VERITAS		Lloyd's Register us	PRS	RINA
Marine / Shipping	g other				
	<u>Confirmation</u>	DE	,		
urther information Information- and https://www.sieme	Downloadcenter (Catalo	gs, Brochures,.)		
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http://support.auto	mation.siemens.com/WW/		lt.aspx?lang=en&mlfb=3Rl FAQs,)	H2122-1AU00	
	ustry.siemens.com/cs/ww/			uit diagrams. EPLAN mag	

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-1AU00&lang=en</u> Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1AU00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-1AU00&objecttype=14&gridview=view1



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