SIEMENS

Data sheet 3RH2244-2AP00

CONTACTOR RELAY, 4NO+4NC, AC 230V, 50/60 HZ, SZ S00, SPRING-LOADED TERMINAL, PERMANENT AUX. SWITCH, FOR SUVA APPLICATIONS



Product brand name	SIRIUS
Product designation	contactor relay
Product type designation	3RH2

General technical data	
Size of contactor	S00
Product extension	
Auxiliary switch	No
Insulation voltage	
 with degree of pollution 3 rated value 	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
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

Equipment marking	
● acc. to DIN EN 61346-2	K
• acc. to DIN EN 81346-2	κ
Ambient conditions	
Ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
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	230 V
at 60 Hz rated value	230 V
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
Apparent pick-up power of magnet coil at AC	37 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of magnet coil at AC	5.7 V·A
Inductive power factor with the holding power of the coil	0.25
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	44 E

elements

Operating current at AC-12 maximum

Operating current at AC-15

10 A

• 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
Operating 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
Operating 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
Operating 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
Operating current at 1 current path at DC-13	
• 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
Operating 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
● at 600 V rated value	0.1 A

Operating 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		
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail		
Height	70 mm		
Width			
YYIGUI	45 mm		
Depth	45 mm 121 mm		
Depth			
Depth Required spacing			
Depth Required spacing • for grounded parts	121 mm		
Depth Required spacing • for grounded parts — at the side	121 mm		
Depth Required spacing • for grounded parts — at the side • for live parts — at the side	121 mm 6 mm		
Depth Required spacing • for grounded parts — at the side • for live parts	121 mm 6 mm		
Depth Required spacing • for grounded parts — at the side • for live parts — at the side Connections/Terminals	121 mm 6 mm		

• for auxiliary contacts

processing

— single or multi-stranded

— finely stranded with core end processing

— finely stranded without core end

2x (0,5 ... 4 mm²)

2x (0.5 ... 2.5 mm²)

2x (0.5 ... 2.5 mm²)

• at AWG conductors for auxiliary contacts

2x (20 ... 12)

Safety related data		
B10 value		
 with high demand rate acc. to SN 31920 	1 000 000; With 0.3 x le	
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	40 %	
 with high demand rate acc. to SN 31920 	73 %	
Failure rate [FIT]		
 with low demand rate acc. to SN 31920 	100 FIT	
Product function		
 positively driven operation acc. to IEC 60947-5- 	Yes	
1		
T1 value for proof test interval or service life acc. to IEC 61508	20 y	

Certificates/approvals

General Product Approval	Functional	Declaration of
	Safety/Safety	Conformity
	of Machinery	









Type Examination



Test Certificates

Type Test
Certificates/Test
Report

Special Test Certificate



Marine / Shipping

ABS





 GL

other



LRS

Marine / Shipping









 $\frac{\text{Environmental}}{\text{Confirmations}}$

Confirmation

other



Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

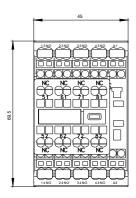
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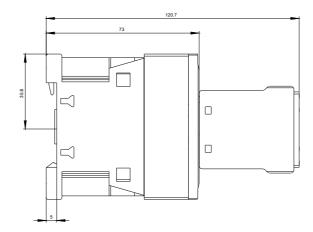
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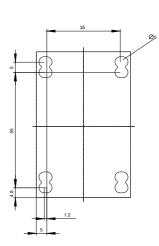
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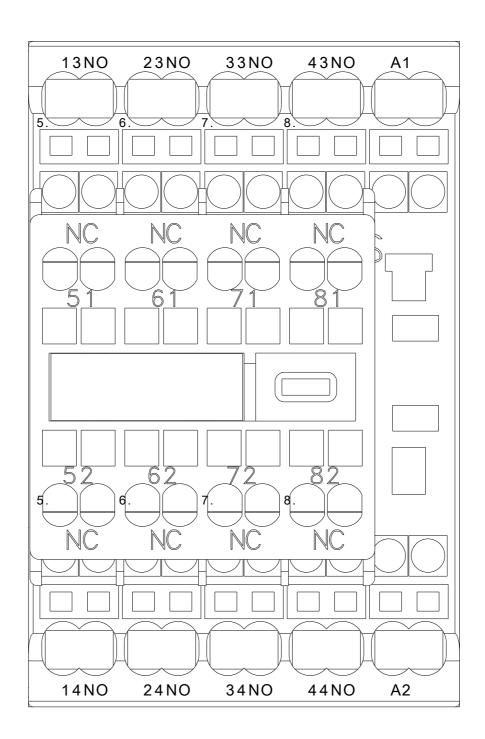
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-2AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2244-2AP00&lang=en

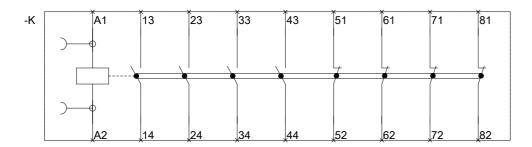








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