SIEMENS

Data sheet

3RH2131-2AP00



Contactor relay, 3 NO + 1 NC, 230 V AC, 50 / 60 Hz, Size S00, Spring-type terminal

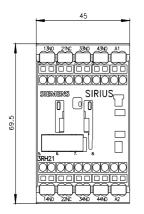
product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated 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 (operating 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	95 %
maximum	
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
control supply voltage frequency	
 1 rated value 	50 Hz
• 2 rated value	60 Hz

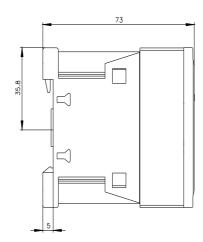
value of magnet coil at AC 0.8 11 • at 50 Hz 0.8 1.1 • at 50 Hz 0.85 1.1 • at 50 Hz 0.85 1.1 • at 60 Hz 0.74 Inductive power factor with claig power of the coil 0.8 • at AC 5	operating range factor control supply voltage rated	
• at 60 hz 0.85 1.1 apparent pick up power formagnet coil at AC 37 VA inductive power factor with closing power of the coil 0.8 apparent holding power of apparent coil at AC 5.7 VA inductive power factor with the holding power of the coil 0.25 closing delay		
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Inductive power factor with closing power of the coll apparent holding power of apparent coll at A sparent holding power factor with the holding power of the coll closing delay • at AC • At	• at 60 Hz	0.85 1.1
apparent holding power of magnet coil at AC 5.7 VA Inductive power factor with the holding power of the coll 0.25 closing delay 833 ms • at AC 833 ms opening delay •15 ms • at AC 115 ms Auxiliary circuit 1 number of NC contacts for auxiliary contacts 1 • instainancess contact 3 identification number and latter for switching 31 E eitements 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at 1 current path at DC-12 • • at 300 V rated value 2A • at 300 V rated value 3A • at 300 V rated value 3A • at 400 V rated value 0A • at 400 V rated value 0A • at 400 V rated value 10A	apparent pick-up power of magnet coil at AC	37 VA
Inductive power factor with the holding power of the coll0.25closing delay al ACB- al AC al AC1- instantaneous contact1- instantaneous contact3- instantaneous contact3- instantaneous contact3- instantaneous contact3- instantaneous contact10 A- operational current at AC-12 maximum10 A- ot 22 V rated value10 A- ot 22 V rated value<	inductive power factor with closing power of the coil	0.8
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DC-13• at 24 V rated value10 A• at 60 V rated value3.5 A• at 110 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.1 A		0.1 A
• at 60 V rated value3.5 A• at 110 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.1 A		
• at 110 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.1 A		10 A
• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.1 A	• at 60 V rated value	3.5 A
 at 440 V rated value at 600 V rated value 0.1 A 	• at 110 V rated value	1.3 A
• at 600 V rated value 0.1 A	• at 220 V rated value	0.9 A
	• at 440 V rated value	0.2 A
operational current with 3 current paths in series at	• at 600 V rated value	0.1 A
	operational current with 3 current paths in series at	

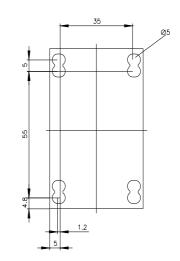
DC-13	
at 24 V rated value	10 A
at 60 V rated value	4.7 A
• at 110 V rated value	3 A
at 220 V rated value	1.2 A
at 440 V rated value	0.5 A
at 600 V rated value	0.26 A
operating frequency at DC-13 maximum	1 000 1/h
design of the miniature circuit breaker for short-circuit	C characteristic: 6 A; 0.4 kA
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	
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	70 mm
width	45 mm
depth	73 mm
required spacing	
• with side-by-side mounting	10
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	10
— 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	spring-loaded terminals
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	$2x (0.5 \dots 4 \text{ mm}^2)$
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)
— finely stranded without core end processing	2x (0.5 2.5 mm ²)
at AWG cables for auxiliary contacts	2x (20 12)
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	
 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	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	

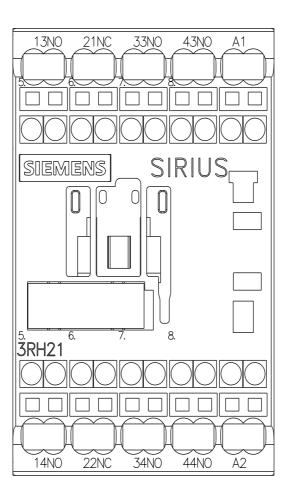
(SP) CM	<u>Confirmation</u>	CCC		<u>KC</u>	EHC		
EMC	Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates			
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate		
Marine / Shipping							
ABS	B UREAU VERITAS		Lloyd's Register uts	PRS	RINA		
Marine / Shipping	other		Railway				
RMRS	<u>Confirmation</u>	VDE	Vibration and Shock				
Further information							
Information on the p	00	on/view/100012075					
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=3RH2131-2AP00 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2131-2AP00							
Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
<u>https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2AP00</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2131-2AP00⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2AP00/char							
	Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-2AP00&objecttype=14&gridview=view1						

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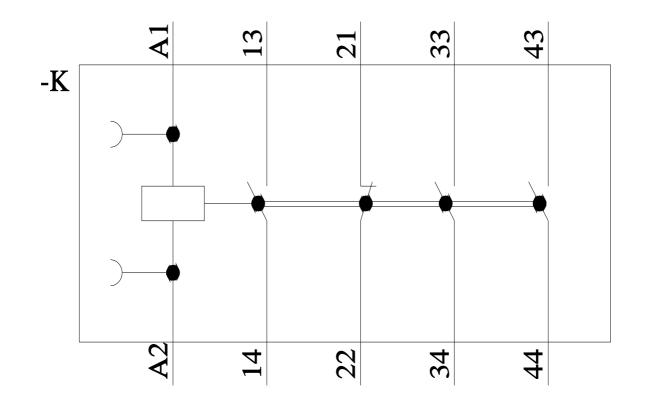








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