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 (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 acc. to IEC 81346-2	К						
Substance Prohibitance (Date)	01.10.2009 00:00:00						
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						
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						

	0011
• 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
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	0.25
coil	
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	1
 instantaneous contact 	1
number of NO contacts for auxiliary contacts	3
instantaneous contact	3
identification number and letter for switching	31 E
elements operational current at AC-12 maximum	10 A
	IU A
operational current at AC-15 • at 230 V rated value	10 A
at 200 V rated value	3A
at 500 V rated value	2 A
at 690 V rated value	1A
operational 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
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	
• at 24 V rated value	10 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
operational current with 2 current paths in series at	
DC-13	40.4
• at 24 V rated value	10 A

• et 440 V rated value 0.2 Å operating current with 3 current paths in series at DC-03 0.1 Å • et 24 V rated value 10 Å • et 24 V rated value 10 Å • et 24 V rated value 10 Å • et 20 V rated value 10 Å • et 20 V rated value 2.8 Å • et 20 V rated value 0.2 Å • et 400 V rated value 0.5 Å • et 400 V rated value 0.2 Å • contact rating outpation 1 faulty switchings per 100 million (17 V, 1 mÅ) • contact rating of auxiliary contacts according to UL A600 / Q800 Statuteion/mounting dimensions */180* rotation possible on vertical mounting surface: can be tilted forward and backward by 16 22.5 ° on vertical mounting surface: featening method screw and sacpon mounting on 0.5 m standard mounting surface:	 at 220 V rated value 	0.9 A			
• et 600 V reter value 0.1 A operating • et 20 V rated value 0.4 A • et 20 V rated value 10 A • et 20 V rated value 3.A • et 20 V rated value 3.A • et 20 V rated value 1.2 A • et 40 V rated value 1.2 A • et 20 V rated value 0.5 A • et 20 V rated value 0.2 A obscingt 0.5 A • et 20 V rated value 0.2 A operating frequency at DC-13 maximum 0.00 th obscingt 0.2 A operating frequency at DC-13 maximum 0.00 th obscingt 0.2 A operating frequency at DC-13 maximum 0.00 th obscingt 0.1 A operating frequency at DC-13 maximum 0.00 th Outcot critebility of auxiliary contacts 1 feuly switching per 100 million (17 V, 1 mA) ILUC5A ratings Industry switching per 100 million (17 V, 1 mA) ILUC5A ratings Industry switching per 100 million (17 V, 1 mA) ILUC5A rating perating frequency at Case as eace on a sang-on mounting surface; can be tilted forward and backward by + 2.2 S ⁻ on vertical mounting surface; fastening method featening method 4-180 ⁻ rotaton possible on vertical mounting surface; can be tilted forward and backward by + 2.2 S ⁻ on vertical mounting surface; fastening method h					
operational current with 3 current paths in series at DC-13 10.A at 24 V trited value 10.A at 36 V trited value 4.7 A at 20 V trade value 3.A at 20 V trade value 3.A at 40 V trade value 0.2 A at 40 V trade value 0.2 A at 400 V trade value 0.2 A cat 400 V trade value 0.2 A cat 400 V trade value 0.2 A operating frequency at DC-13 maximum 1000 th design of the facultar protection of the acuilary contacts according to UL A600 / Q600 Stort-facult protection fuse gulg(5: 10 A auxiliary contacts according to UL A600 / Q600 Stort-facult protection fuse gulg(5: 10 A mounting origination of the acuilary contacts according to UL A600 / Q600 Stort-facult protection of the acuilary contacts according to UL A600 / Q600 Stort-facult protection of the acuilary south active and backward by +2.25 on writical mounting surface: can be tilted field the protection of the acuilary contacts fuse gulg(5: 10 A mounting protection of the protection of the acuilary contacts 10 mm required spac					
b-13 0 A • at 24 Vrated value 10 A • at 60 Vrated value 4.7 A • at 110 Vrated value 3.A • at 22 Vrated value 1.2 A • at 440 Vrated value 0.5 A • ot 110 Vrated value 0.5 A • ot 22 Vrated value 0.2 S A • ot 20 Vrated value 0.2 S A • oth 20 Vrated value </td <td></td> <td>0.1 A</td>		0.1 A			
if at 60 V rated value if at 110 V rated value if at 110 V rated value if at 20 V rated value if at 440 V rated value if at 450 V rated value if	DC-13				
• at 110 V rated value 3 A • at 220 V rated value 1.2 A • at 420 V rated value 0.5 A • at 400 V rated value 0.28 A Operating frequency at 02-18 maximum 1000 /h design of the ministure circuit breaker for short-circuit protection of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULICSA ratings C characteriation (17 k with required) A600 / 0600 Short-circuit protection faulty switching per 100 million (17 V, 1 mA) ULICSA rating A600 / 0600 Short-circuit protection faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) ULICSA rating faulty switching per 100 million (17 V, 1 mA) Installation/ mounting orbiton f-180 million (17 V, 1 mA) Installation/ mounting orbiton f-180 million (17 V, 1 mA) Instalion standard faulty switching per 100 millio	 at 24 V rated value 	10 A			
• at 220 V rated value 1.2 A • at 400 V rated value 0.5 A • at 600 V rated value 0.2 A ceperating frequency at DC-13 maximum 1000 1/h design of the initiatre riccut breaker for short-circut protection of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings A600 / Q600 design of the fuse link for short-circuit protection of the auxiliary contacts according to UL A600 / Q600 design of the fuse link for short-circuit protection of the auxiliary contacts according to UL A600 / Q600 design of the fuse link for short-circuit protection of the auxiliary contacts according to UL A600 / Q600 fastallation/ mounting dimensions fustallation possible on vertical mounting surface; can be tilted forward and backwards by b+22.28 ° on vertical mounting surface fastallation/ mounting dimensions 1/-180° rolation possible on vertical mounting surface; can be tilted forward and backwards by b+22.28 ° on vertical mounting rail vith side-by-side mounting - forwards - with side-by-side mounting - forwards - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards	 at 60 V rated value 	4.7 A			
	 at 110 V rated value 	3 A			
• at 600 V rated value 0.26 Å operating frequency at DC-13 maximum 1.000 1/h design of the initiature circuit breaker for short-circuit protection of the auxiliary scincti up to 230 V Cohracteristic: 6 Å; 0.4 kÅ contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection fastify switching per 100 million (17 V, 1 mÅ) UL/CSA trilings Isse gL/gC: 10 Å auxiliary switch required faste gL/gC: 10 Å munting position th-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting surface; can be tilted forward and backward by +-228° on vertical mounting rail fastening method screw and snap-on mounting onto 35 mm standard mounting rail forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - of onwards	 at 220 V rated value 	1.2 A			
operating frequency at DC-13 maximum 1 000 1/h design of the miniature circuit breaker for short-circuit protection of the auxiliary contacts C characteristic: 6 A: 0.4 kA contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings 6 design of the fuse link for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A auxiliary contacts fuse gL/gG: 10 A mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/-22.5° on vertical mounting surface; can be tilted forward and backward by 4/-22.5° on vertical mounting surface; can be tilted forward and backward by 4/-22.5° on vertical mounting rail height 70 mm width 46 mm dopth 73 mm required spacing 0 mm - upwards 10 mm - at the side 0 mm - orwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm <td> at 440 V rated value </td> <td>0.5 A</td>	 at 440 V rated value 	0.5 A			
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— finely stranded without core end processing • at AWG cables for auxiliary contacts $2x (0.5 \dots 2.5 \text{ mm}^2)$ $2x (20 \dots 12)$ Safety related dataB10 value with high demand rate acc. to SN 319201 000 000; With 0.3 x leproportion of dangerous failures • with low demand rate acc. to SN 3192040 % 73 %	 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards for live parts forwards at the side downwards at the side downwards at the side downwards at the side downwards downwards at the side downwards downwards at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm			
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B10 value with high demand rate acc. to SN 319201 000 000; With 0.3 x leproportion of dangerous failures• with low demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards at the side downwards at the side downwards at the side downwards for live parts at the side downwards at the side downwards for auxiliary contacts solid or stranded finely stranded with core end processing 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (0.5 4 mm ²) 2x (0.5 2.5 mm ²)			
proportion of dangerous failures• with low demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	 forwards upwards downwards at the side for grounded parts for wards upwards at the side downwards for live parts forwards for live parts forwards at the side downwards at the side downwards for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²)			
 with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 73 % 	 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards for live parts forwards at the side downwards for live parts forwards at the side downwards at the side downwards for auxiliary contacts solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²)			
• with high demand rate acc. to SN 31920 73 %	 forwards upwards downwards at the side for grounded parts for grounded parts forwards upwards at the side downwards for live parts for live parts forwards upwards at the side downwards at the side connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12)			
	 forwards upwards downwards at the side for grounded parts for wards upwards at the side downwards for live parts for wards for live parts forwards at the side downwards at the side downwards at the side downwards at the side downwards for auxiliary contacts solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts Safety related data B10 value with high demand rate acc. to SN 31920 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12)			
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failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT	 forwards upwards downwards at the side for grounded parts for grounded parts forwards upwards at the side downwards for live parts for live parts forwards upwards at the side downwards at the side downwards at the side downwards at the side downwards for live parts at the side downwards at the side downwards at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm Spring-loaded terminals 2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) 1 000 000; With 0.3 x le 40 %			

product function posi 60947-5-1	tively driven operation	acc. to IEC	Yes				
	est interval or service	e life acc. to	20 y				
protection class IP on the front acc. to IEC 60529		IP20					
touch protection on the front acc. to IEC 60529			finge	r-safe, for vertical cont	act from the front		
Certificates/ approval	ls						
General Product Approval EMC							
(SP)				<u>KC</u>	EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Co	nformity		Test Certificates		Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>UK Declaration</u> Conformity		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping	Hoyds				Ø	\sim	
BUREAU VERITAS	Register us	PRS		RINA	RMRS	EWGLEDBOR	
other							
<u>Confirmation</u>	VDE						
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 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

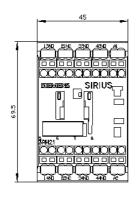
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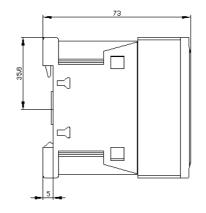
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

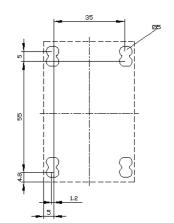
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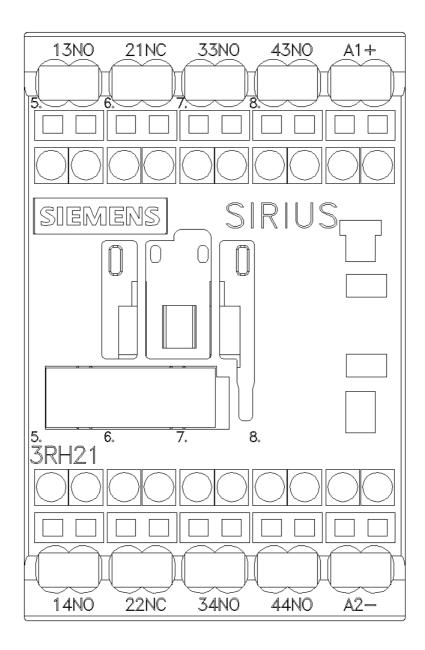
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2AP00/char

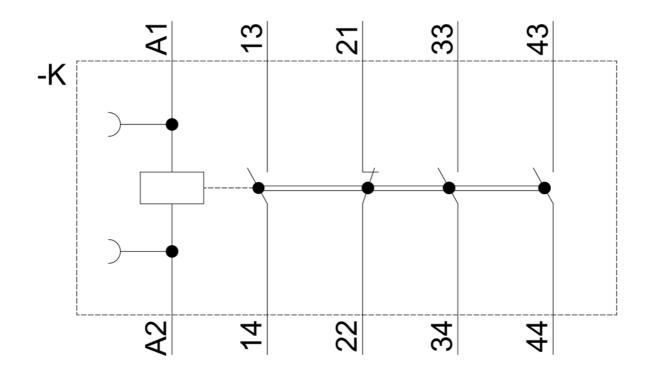
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-2AP00&objecttype=14&gridview=view1











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