SIEMENS

Data sheet

3RH2131-2UB40



Contactor relay, 3 NO + 1 NC, 24 V DC, integrated varistor Size S00, Spring-type terminal

product designation Auxiliary contactor product type designation 3RH2 General technical data \$00 size of contactor \$00 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 6 kV e at DC 10g / 5 ms, 5g / 10 ms ehort DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) 6 000 000 of the contactor with added auxiliary switch block typical 5 000 000 e of the contactor with added auxiliary switch block typical 10 000 000 e of the contactor with added auxiliary switch block typical 10 000 000 e forther contactor with added auxiliary switch block typical 10 000 000 instalation altitude at height above sea level maximum 2 000 m ambient temperature -460 °C e during storage -55 +60 °C relative humidity at 85 °C according to IEC 60068-2:30 95 % Main circuit 10 000 1/h<	product brand name	SIRIUS
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• 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 K Substance Prohibitance (Date) 10/01/2009 Ambient conditions 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 % Main circuit 10 0000 1/h no-load switching frequency 0 000 1/h • at AC 10 0000 1/h • at AC 10 0000 1/h • at C 10 0000 1/h • at Q 000 m • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	• at DC	15g / 5 ms, 8g / 10 ms
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reference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m 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 40 % Main circuit 10 000 1/h no-load switching frequency 0 e at AC 10 000 1/h e at DC 10 000 1/h control circuit/ Control 10 000 1/h type of voltage of the control supply voltage DC control supply voltage at DC 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 initial value 0.8 initial value 0.8 initial value 1.1		5 000 000
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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 DC control supply voltage at DC - • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	reference code according to IEC 81346-2	К
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 % no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control 10 000 1/h type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	ambient temperature	
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maximum Main circuit Main circuit Main circuit no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control 10 000 1/h type of voltage of the control supply voltage DC control supply voltage at DC 0C • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	relative humidity minimum	10 %
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type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	● at DC	10 000 1/h
control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	Control circuit/ Control	
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• rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1		
operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1		24 V
• full-scale value 1.1		
	• initial value	0.8
design of the surge suppressor	• full-scale value	1.1
with Valiston	design of the surge suppressor	with varistor

closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	50 100 ms
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	10 13 113
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 elements	31 E
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 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	3A
at 220 V rated value	1A
• 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	
• 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
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	C characteristic: 6 A; 0.4 kA
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 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 DIN rail
height	70 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	
— 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 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 12)
Safety related data	
product function positively driven operation according to IEC 60947-5-1	Yes
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	





Confirmation



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

<u>KC</u>

7/10/2023

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EHC

RCM	<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Llovd's Register urs	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	
RMRS	<u>Confirmation</u>		Vibration and Shock	Transport Information	
urther information					
Siemens has decided https://press.siemens.c Siemens is working of Please contact your loo	I to exit the Russian marke com/global/en/pressrelease/ on the renewal of the curre cal Siemens office on the st other than the sanctioned E/	<pre>/siemens-wind-down-rus ent EAC certificates. atus of validity of the EA/</pre>	C certification if you intend	to import or offer to supp	bly these products to an
Information on the pa https://support.industry	ackaging <u>siemens.com/cs/ww/en/vie</u> vnloadcenter (Catalogs, Bi	w/109813875			
Industry Mall (Online	ordering system) emens.com/mall/en/en/Catal	log/product?mlfb=3RH21	1 <u>31-2UB40</u>		
http://support.automati	on.siemens.com/WW/CAXo		en&mlfb=3RH2131-2UB4	2	

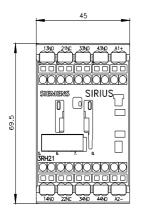
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2UB40</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

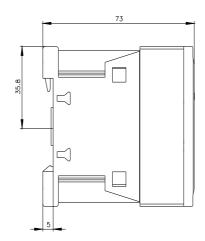
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2131-2UB40&lang=en

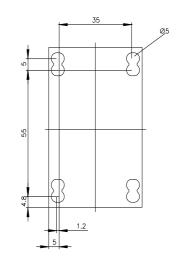
Characteristic: Tripping characteristics, I2t, Let-through current

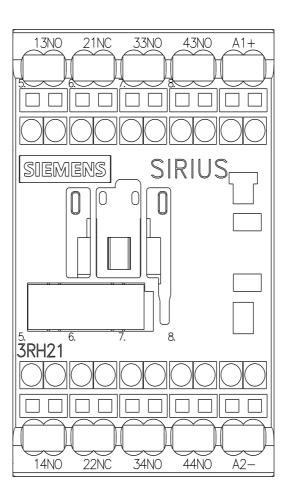
https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2UB40/char

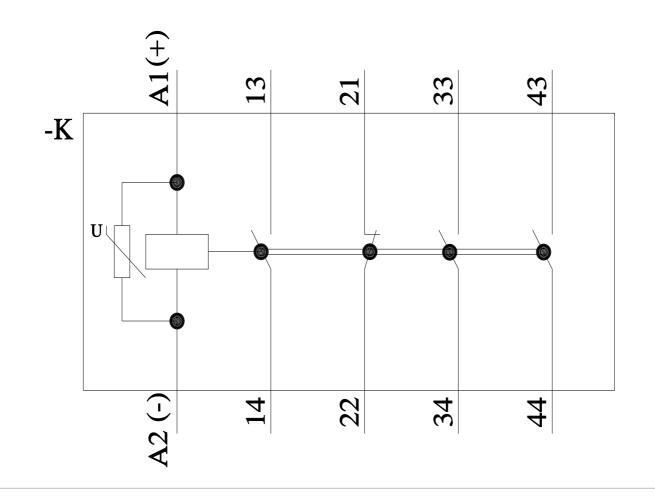
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-2UB40&objecttype=14&gridview=view1











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