SIEMENS

Data sheet

3RH2131-2WB40



Coupling contactor relay, 3 NO + 1 NC, 24 V DC, 0.85 \ldots 1.85* US, with varistor plugged on, Size S00, Spring-type terminal

2000 4400 22			
product brand name	SIRIUS		
product designation	Coupling relay for switching auxiliary circuits		
product type designation	3RH2		
General technical data			
size of contactor	S00		
product extension auxiliary switch	No		
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 DC	10g / 5 ms, 5g / 10 ms		
shock resistance with sine pulse			
• at DC	15g / 5 ms, 8g / 10 ms		
mechanical service life (operating cycles)			
 of contactor typical 	30 000 000		
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 +50 °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	DC		
control supply voltage at DC			
rated value	24 V		
operating range factor control supply voltage rated value of magnet coil at DC			
• initial value	0.85		
• full-scale value	1.85		
design of the surge suppressor	with varistor		
closing power of magnet coil at DC	1.6 W		
holding power of magnet coil at DC	1.6 W		
closing delay			

	25 100 mg
• at DC	25 120 ms
opening delay	5 - 00 ma
• at DC	5 20 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 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	3 A
 at 500 V rated value 	2 A
at 690 V rated value	1 A
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	
• 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 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)

G: 10 A potation possible on vertical mounting surface; can be tilted forward a l by +/- 22.5° on vertical mounting surface d snap-on mounting onto 35 mm DIN rail		
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10 mm 6 mm		
aded terminals		
2x (0,5 4 mm²)		
2x (0.5 2.5 mm ²)		
2x (0.5 2.5 mm²) 2x (20 12)		
12)		
); With 0.3 x le		
73 %		
100 FIT		
20 a		
IP20		
e, for vertical contact from the front		

RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register uis	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	
RMRS	<u>Confirmation</u>	UDE VDE	Vibration and Shock	Transport Information	
Further information					
https://press.siemens.c Siemens is working o Please contact your loc EAC relevant market (o Information on the pa https://support.industry. Information- and Dow https://www.siemens.co Industry Mall (Online https://mall.industry.sie Cax online generator	.siemens.com/cs/ww/en/view mloadcenter (Catalogs, Bro om/ic10	iemens-wind-down-rus nt EAC certificates. tus of validity of the EA EU member states Rus v/109813875 pochures,) pg/product?mlfb=3RH2	C certification if you intend ssia or Belarus). 1 <u>31-2WB40</u>		y these products to an

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2131-2WB40

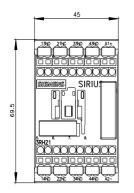
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2WB40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

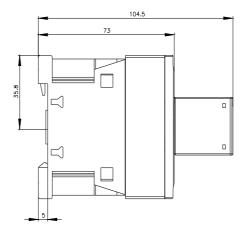
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2131-2WB40&lang=en

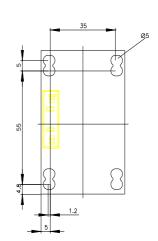
Characteristic: Tripping characteristics, I2t, Let-through current

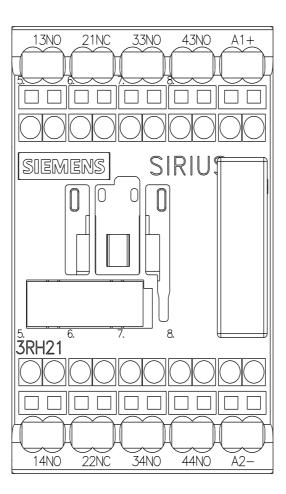
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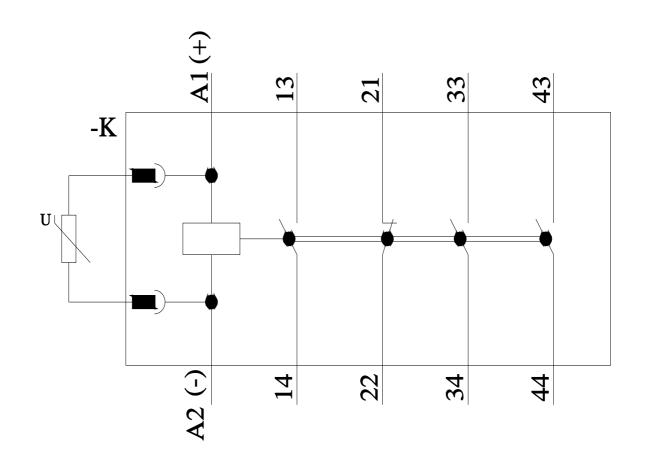
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-2WB40&objecttype=14&gridview=view1











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