SIEMENS

Data sheet

3RH2131-2SB40



Coupling contactor relay, 3 NO + 1 NC, 24 V DC, 0.85 \dots 1.85* US, with integrated suppressor diode, Size S00, Spring-type terminal

440 A2				
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	suppressor diode			
closing power of magnet coil at DC	1.6 W			
holding power of magnet coil at DC	1.6 W			
closing delay				

a at DC	25 120 mg
• at DC	25 120 ms
opening delay	5 20 ms
• at DC	
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		
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> tificate	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					
ABS	BUREAU VERITAS		Llovd's Register urs	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	
KMRS RMRS	<u>Confirmation</u>	UDE VDE	<u>Vibration and Shock</u>	Transport Information	
Further information					
Siemens has decided https://press.siemens.co Siemens is working o Please contact your loo EAC relevant market (co 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, Br om/ic10	siemens-wind-down-rus nt EAC certificates. tus of validity of the EA EU member states Rus w/109813875 ochures,) pg/product?mlfb=3RH2	C certification if you intend ssia or Belarus). 131-2SB40		ly these products to an

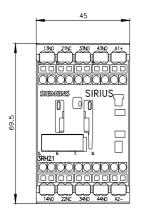
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2SB40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

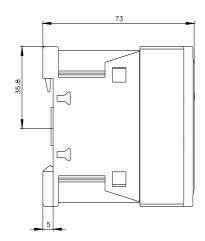
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2131-2SB40&lang=en

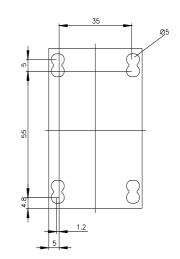
Characteristic: Tripping characteristics, I2t, Let-through current

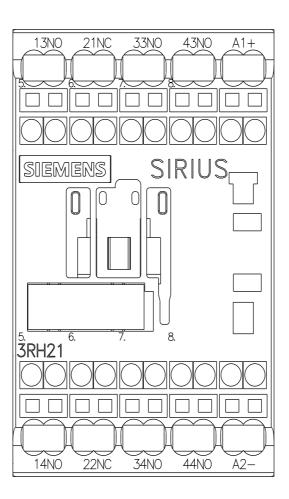
https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2SB40/char

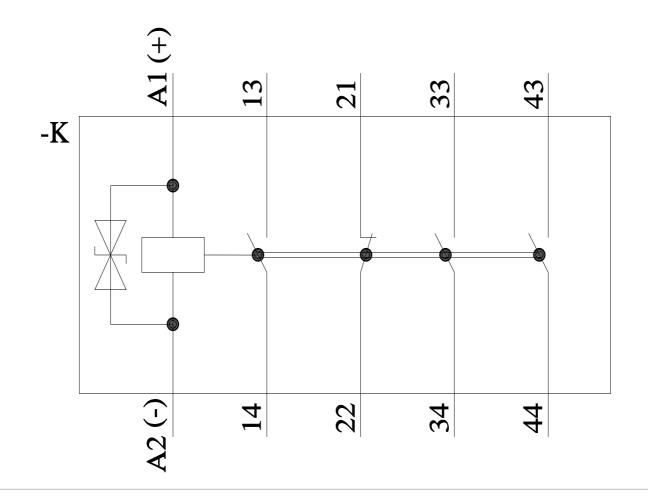
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-2SB40&objecttype=14&gridview=view1











last modified:

11/21/2022 🖸