SIEMENS

Data sheet

3RH2131-2LB40



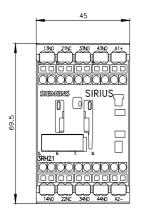
Coupling contactor relay railway 3 NO + 1 NC, 24 V DC, 0.7 \dots 1.25* US, with varistor integrated, Size S00, Spring-type terminal

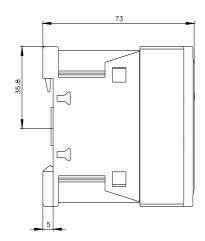
web 42-	440 440 III					
product brand name	SIRIUS					
product designation	Coupling relay for switching auxiliary circuits					
product type designation	3RH2					
General technical data						
size of contactor	S00					
product extension auxiliary switch	No					
insulation voltage with degree of pollution 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 +60 °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	0.7					
• full-scale value	1.25					
design of the surge suppressor	with varistor					
closing power of magnet coil at DC	2.8 W					
holding power of magnet coil at DC	2.8 W					
closing delay						

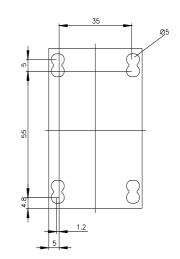
	25 120 mg
• at DC	25 130 ms
opening delay	7 00 mg
• at DC	7 20 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	3
instantaneous contact	3
identification number and letter for switching elements	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)

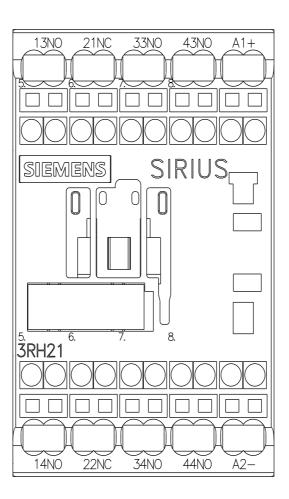
L/CSA ratings contact rating of auxiliary contacts according to UL	A600 / Q600			
hort-circuit protection	A0007 Q000			
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 10 A			
switch required				
stallation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on ve		can be tilted forward and	
fastening method	backward by +/- 22.5° on verti	Ŭ		
height	screw and snap-on mounting onto 35 mm DIN rail 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 for live parts 	10 mm			
- forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
onnections/ 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 mm ²)			
 finely stranded without core end processing 	2x (0.5 2.5 mm²)			
 for AWG cables for auxiliary contacts 	2x (20 12)			
afety 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 %	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			
ertificates/ approvals				
General Product Approval				
	·· •	KC	гпг	
	(P)		FHI	
CSA CCC	UL		6116	
Eurotional	Declaration of Conformity			
EMC Functional EMC Safety/Safety of Ma- Declaration of	Conformity	Test Certificates	Marine / Shipping	

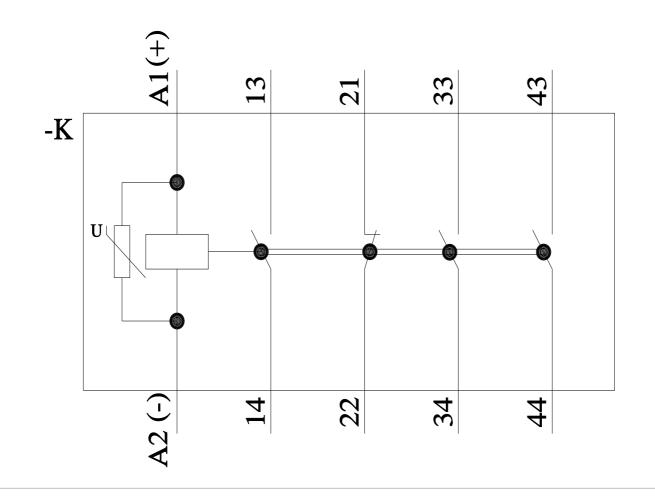
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping							
B U R E A U VERITAS		Lloyd's Kegister uis	PRS	RINA	RAMES		
other		Railway	Dangerous Good				
<u>Confirmation</u>		Vibration and Shock	Transport Information				
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging 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=3RH2131-2LB40							
Service&Support (M https://support.industr Image database (pro http://www.automation	r tion.siemens.com/WW/CAX lanuals, Certificates, Chara ry.siemens.com/cs/ww/en/ps oduct images, 2D dimension n.siemens.com/bilddb/cax_con/bil	acteristics, FAQs,) 5/3RH2131-2LB40 on drawings, 3D models de.aspx?mlfb=3RH2131-2	s, device circuit diagrams	-			
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11/21/2022 🖸