SIEMENS

Data sheet

3RH2140-1WB40



Coupling contactor relay, 4 NO, 24 V DC, 0.85 \dots 1.85* US, with varistor plugged on, Size S00, screw terminal

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	

● at DC	25 120 ms
opening delay	25 120 115
• at DC	5 20 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	4
instantaneous contact	4
identification number and letter for switching elements	40 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 operational current with 2 current paths in series at 	0.1 A
DC-13 • at 24 V rated value	10 A
at 24 V rated value 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	0.3 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)
UL/CSA ratings	

Short-circuit protection design of the fuse link for short-circuit protection auxiliary switch required nstallation/mounting/dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side Sonnections/ Terminals type of electrical connection for auxiliary and type of connectable conductor cross-sect • for auxiliary contacts - solid or stranded - finely stranded with core end provited • at AWG cables for auxiliary contacts B10 val	d control circuit	forward and backward screw and snap-on me 57.5 mm 45 mm 73 mm 10 mm		unting surface I
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T1 value for proof test interval or service life EC 61508		100 FIT		
protection class IP on the front according	according to	20 a		
60529	g to IEC	IP20		
ouch protection on the front according t	o IEC 60529	finger-safe, for vertical contact from the front		
ertificates/ approvals				
General Product Approval				
Confirmation	m	ŝ	<u>KC</u>	гпг
QP	(m)	(^u L)		FAL
CSA		UL		LIIL
Functional				
EMC Safety/Safety of Machinery				

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RCM







Special Test Certific-<u>ate</u>

Type Test Certific-ates/Test Report

Marine /	Shipping	





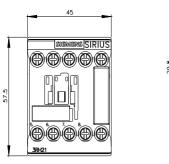


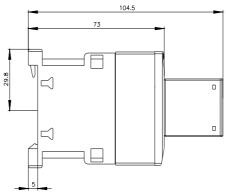


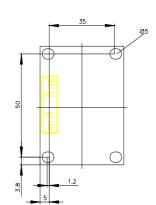


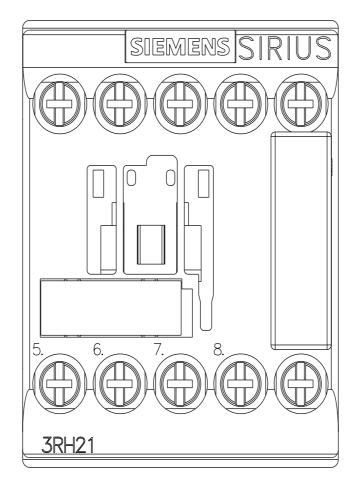
Marine / Shipping	other	Railway	Dangerous Good
KARS	<u>Confirmation</u>	Vibration and Shock	<u>Transport Informa-</u> <u>tion</u>

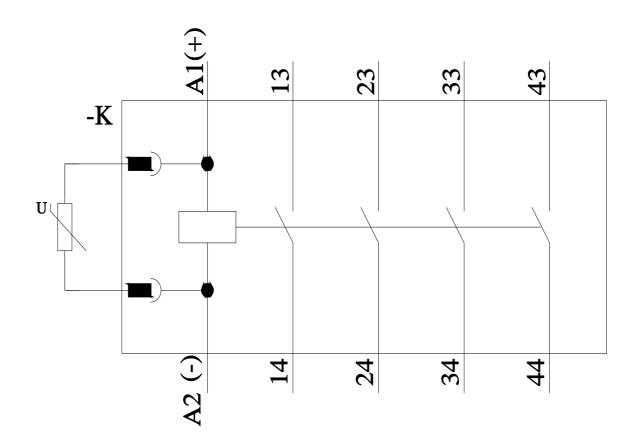
Further information	
Information on the packaging	
https://support.industry.siemens.com/cs/ww/en/view/109813875	
Information- and Downloadcenter (Catalogs, Brochures,)	
https://www.siemens.com/ic10	
Industry Mall (Online ordering system)	
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2140-1WB40	
Cax online generator	
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-1WB40	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1WB40	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2140-1WB40⟨=en	
Characteristic: Tripping characteristics, I ² t, Let-through current	
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1WB40/char	
Further characteristics (e.g. electrical endurance, switching frequency)	
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-1WB40&objecttype=14&gridview=view1	











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