## **SIEMENS**

Data sheet 3RH2140-2JC40

COUPL. CONT. REL., 4NO, 30 V DC, 0.7...1.25\*US, W. INTEGRATED DIODE, SIZE S00, SPRING-TYPE TERMINALS SUITABLE FOR PLC OUTPUTS



Figure similar

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	
<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
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 (switching cycles)	
• of contactor typical	30 000 000
Equipment marking	00 000 000
• acc. to DIN EN 61346-2	К
• acc. to DIN EN 81346-2	K
acc. to bin EN 01340-2	TX
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
during storage	-55 +80 °C
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	30 V
Design of the surge suppressor	with diode
Closing power of magnet coil at DC	2.8 W
Holding power of magnet coil at DC	2.8 W
Closing delay	
• at DC	30 100 ms
Opening delay	
• at DC	7 13 ms
Arcing time	10 15 ms
Auxiliary circuit	
Number of NO contacts	
• for auxiliary contacts	4
<ul><li>instantaneous contact</li></ul>	4
Identification number and letter for switching elements	40 E
Operating current at AC-12 maximum	10 A
Operating current at AC-15	1071
• at 230 V rated value	10 A
at 400 V rated value	3 A
	2 A
at 500 V rated value	
• at 690 V rated value	1 A
Operating current at 1 current path at DC-12	40.4
• 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
Operating 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
Operating current with 3 current paths in series at DC-12	
at 24 V rated value	10 A
at 60 V rated value	10 A
	10 A
at 110 V rated value     at 220 V rated value	3.6 A
• at 220 V rated value	2.5 A
• at 440 V rated value	1.8 A
at 600 V rated value  Operating frequency at DC-12 maximum	1 000 1/h
Operating requency at DC-12 maximum  Operating current at 1 current path at DC-13	1 000 1/11
• 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
Operating 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
Operating current with 3 current paths in series at	
DC-13	10.4
• 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 0.5 A
<ul><li>at 440 V rated value</li></ul>	11.2.4

	0.26 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				
<ul> <li>for short-circuit protection of the auxiliary circuit up to 230 V</li> </ul>	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				
Contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
Design of the fuse link				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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			
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail			
Height	70 mm			
Width	45 mm			
Depth	73 mm			
Required spacing				
<ul><li>for grounded parts</li></ul>				
— at the side	6 mm			
• for live parts				
— at the side	6 mm			
Connections/Terminals				
Type of electrical connection				
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals			
Type of connectable conductor cross-sections				
• for auxiliary contacts				
— single or multi-stranded	2x (0,5 4 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)			
finely stranded without core end processing	2x (0.5 2.5 mm²)			
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 12)			
Safety related data				
B10 value				
• with high demand rate acc. to SN 31920	1 000 000; With 0.3 x le			
Proportion of dangerous failures				
• with low demand rate acc. to SN 31920	40 %			
• with high demand rate acc. to SN 31920	73 %			

Failure rate [FIT]	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	100 FIT
Product function	
<ul><li>positively driven operation acc. to IEC 60947-5-</li></ul>	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 y

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Certificates/	/annrovals
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General Product Approval	Functional	Declaration of	Test	Marine /
	Safety/Safety	Conformity	Certificates	Shipping
	of Machinery			





Type Examination



Type Test
Certificates/Test
Report



## Marine / Shipping





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Marine / other Shipping



Confirmation



## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2140-2JC40

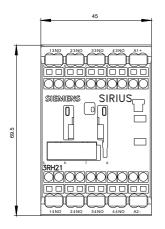
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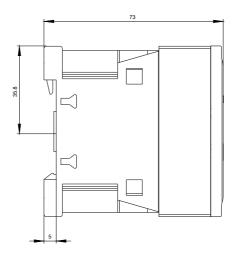
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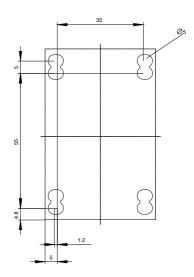
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

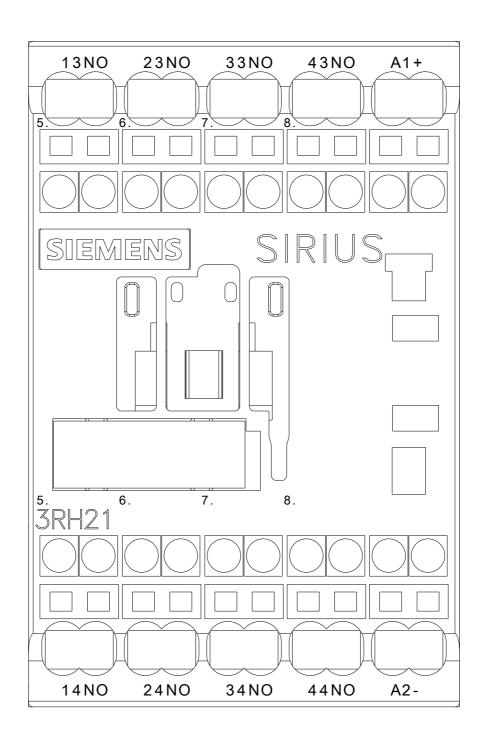
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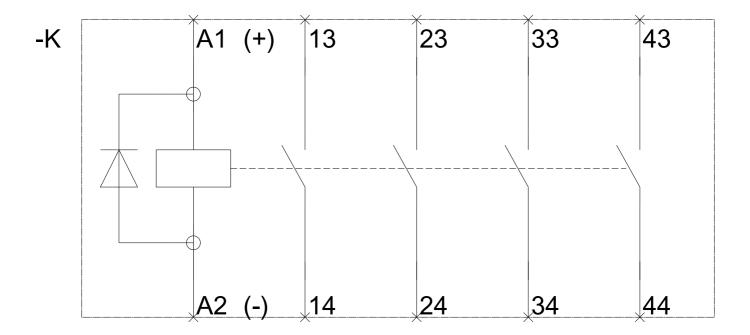
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