SIEMENS

Data sheet 3RQ2000-2CW01

Coupling relays in industrial enclosure 3 change-over contacts hard gold-plated Wide voltage range 24 V to 240 V AC/DC Spring-type terminal



Figure similar

Product brand name	SIRIUS		
Product designation	Coupling relay in industrial enclosure		
Product type designation	3RQ2		

General technical data	
Consumed active power	5 W
Insulation voltage	
 for overvoltage category III according to IEC 60664 	
 — with degree of pollution 3 rated value 	300 V
Degree of pollution	3
Surge voltage resistance rated value	4 kV
maximum permissible voltage for safe isolation	
 between auxiliary and auxiliary circuit 	300 V
 between control and auxiliary circuit acc. to IEC 60947-1 	300 V
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	11g / 15 ms

• for railway applications acc. to DIN EN 61373	Category 1, Class B
Switching behavior	monostable
Mechanical service life (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	
● at AC-15 at 230 V typical	100 000
Thermal current of the switching element with contacts maximum	5 A
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	К
Reference code acc. to DIN EN 81346-2	К
Reference code acc. to DIN EN 61346-2	К
Control circuit/ Control	
Control supply voltage 1 at AC	
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
Control supply voltage 1	
• at DC	24 240 V
Operating range factor control supply voltage rated value at DC	
• initial value	0.7
Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 50 Hz	
● initial value	0.7
Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.7
Full-scale value	1.1
Switch-on delay time	
• at AC maximum	10 ms
• at DC maximum	10 ms
Off-delay time	100 ms
Design of the relay operating mechanism	poled
Product component Plug-in socket	No
Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 6 A
Auxiliary circuit	
Material of switching contacts	AgNi + Au

Number of NC contacts for auxiliary contacts	0			
Number of NO contacts for auxiliary contacts	0			
Number of CO contacts				
• for auxiliary contacts	3			
Contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)			
Type of voltage	AC/DC			
Outputs				
Ampacity of the output relay at AC-15				
● at 24 V at 50/60 Hz	3 A			
● at 110 V at 50/60 Hz	3 A			
● at 250 V at 50/60 Hz	3 A			
Ampacity of the output relay at DC-13				
● at 24 V	1 A			
● at 125 V	0.2 A			
● at 250 V	0.1 A			
Electromagnetic compatibility				
EMC emitted interference				
• acc. to IEC 60947-1	ambience A (industrial sector)			
EMI immunity				
● acc. to IEC 60947-1	corresponds to degree of severity 3			
Conducted interference				
• due to burst acc. to IEC 61000-4-4	2 kV			
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV (line to ground)			
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV (line to line)			
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m			
Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge			
Safety related data				
Electromagnetic compatibility	IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4			
Connections/Terminals				
Product function				
 removable terminal for auxiliary and control circuit 	Yes			
Type of electrical connection	Push-in terminal			
Type of connectable conductor cross-sections				
• solid	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
 at AWG conductors solid 	20 12			
Connectable conductor cross-section				

• solid	0.5 4 mm²
 finely stranded with core end processing 	2.5 mm²
 finely stranded without core end processing 	0.5 mm²
AWG number as coded connectable conductor cross section	
• solid	12 20
• stranded	20 12
Wire stripping length of the cable	
 for auxiliary and control contacts 	10 mm

Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Height	100 mm
Width	22.5 mm
Depth	90 mm

Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
during operation	-40 +70 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
Relative humidity	
during operation	10 95 %

Certificates/approvals

General Product Approval	Declaration of Conformity	Test Certific- ates	other
		T T 10 00	0 5 0









Type Test Certificates/Test Report

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=3RQ2000-2CW01

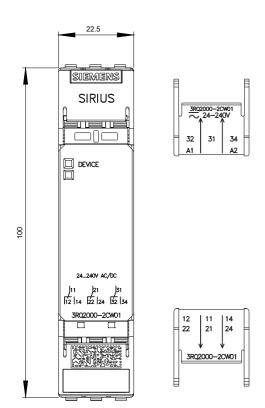
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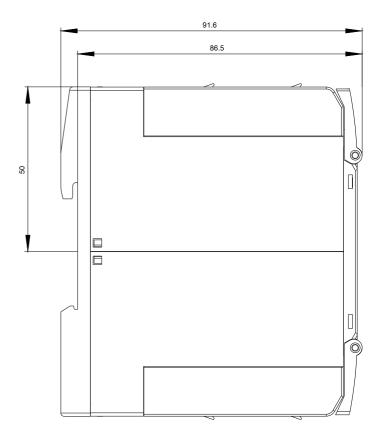
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RQ2000-2CW01}$

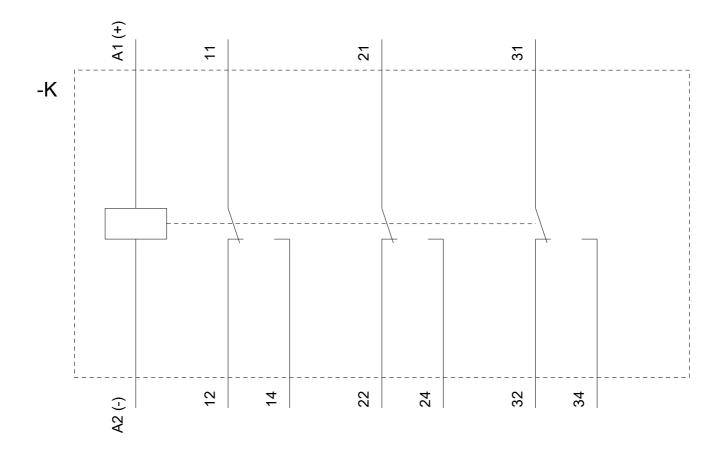
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2CW01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ2000-2CW01&lang=en







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