SIEMENS

Data sheet 3RQ2000-1CW01



Coupling relay in industrial enclosure 3 hard gold-plated changeover contacts Wide voltage range 24 V to 240 V AC/DC Screw terminals

product brand name	SIRIUS		
product designation	Coupling relay in industrial enclosure		
product type designation	3RQ2		
General technical data			
product feature protective coating on printed-circuit board	No		
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 protective separation			
 between auxiliary and auxiliary circuit 	300 V		
 between control and auxiliary circuit according to IEC 60947-1 	300 V		
protection class IP	IP20		
shock resistance			
 according to IEC 60068-2-27 	11g / 15 ms		
 for railway applications according to EN 61373 	Category 1, Class B		
vibration resistance			
• according to IEC 60068-2-6	10 55 Hz: 0.35 mm		
 for railway applications according to EN 61373 	Category 1, Class B		
switching behavior	monostable		
mechanical service life (operating cycles) typical	10 000 000		
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000		
thermal current of the switching element with contacts maximum	5 A		
reference code according to IEC 81346-2	К		
Substance Prohibitance (Date)	05/31/2018		
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	<u> </u>		
• initial value	0.7		
full-scale value	1.1		
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 per 100 million (11 V, 2 mA)		
type of voltage	AC/DC		
ampacity of the output relay at AC-15	Noibo		
	0.4		
• 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 amitted interference according to IEC 60047.4	ambience A (industrial sector)		
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)		
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	corresponds to degree of severity 3		
EMC immunity according to IEC 60947-1			
EMC immunity according to IEC 60947-1 conducted interference	corresponds to degree of severity 3		
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4	corresponds to degree of severity 3 2 kV		
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC	corresponds to degree of severity 3 2 kV 2 kV (line to ground)		
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EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line)		
edue to conductor-earth surge according to IEC 61000-4-5 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line)		
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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 +60 °C
 during storage 	-40 +80 °C
during transport	-40 +80 °C
relative humidity during operation	10 95 %
Certificates/ approvals	



Confirmation









EMC

Declaration of Conformity

General Product Approval

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other Railway

<u>Confirmation</u> <u>Confirmation</u>

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=3RQ2000-1CW01

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RQ2000-1CW01}$

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

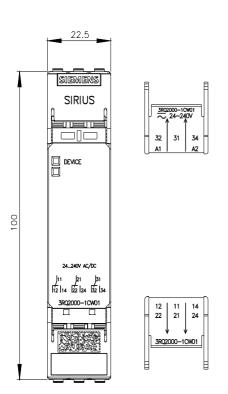
https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-1CW01

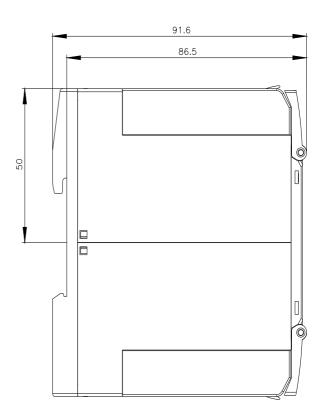
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

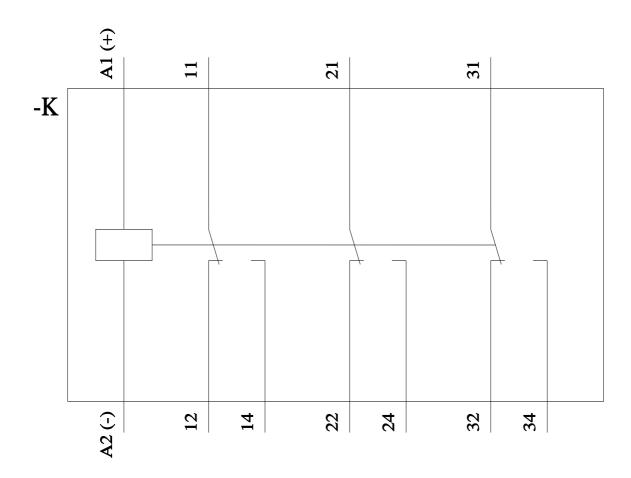
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ2000-1CW01&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-1CW01/manual







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