SIEMENS

Data sheet 3RQ2000-2CW01



Coupling relay in industrial enclosure 3 hard gold-plated changeover contacts Wide voltage range 24 V to 240 V AC/DC Spring-type 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	2.5 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	
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	K	
Substance Prohibitance (Date)	05/31/2018	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1	
Weight	0.173 kg	
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
ON-delay time	
 at AC maximum 	10 ms
at DC maximum	10 ms
OFF-delay time maximum	100 ms
Switching Function	
design of the switching function	CO contact
Mechanical data	
product component plug-in socket	No
design of the relay operating mechanism	poled
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary	fuse qL/gG: 6 A
switch required	iuse gerge. V A
Auxiliary circuit	
material of switching contacts	AqNi + 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	
• 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 according to IEC 60947-1	ambience A (industrial sector)
	,
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
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conducted interference	
conducted interference • due to burst according to IEC 61000-4-4	2 kV
conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to ground)
conducted interference • due to burst according to IEC 61000-4-4	2 kV
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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	2 kV 2 kV (line to ground) 1 kV (line to line)
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 electrostatic discharge according to IEC 61000-4-2	2 kV 2 kV (line to ground) 1 kV (line to line)
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 electrostatic discharge according to IEC 61000-4-2 Display	2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging
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 electrostatic discharge according to IEC 61000-4-2 Display product component LED	2 kV 2 kV (line to ground) 1 kV (line to line)
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 electrostatic discharge according to IEC 61000-4-2 Display product component LED Connections/ Terminals	2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging Yes
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 electrostatic discharge according to IEC 61000-4-2 Display product component LED Connections/ Terminals product component removable terminal for auxiliary and	2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging
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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 electrostatic discharge according to IEC 61000-4-2 Display product component LED Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging Yes
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Installation/ mounting/ dimensions		
mounting position	any	
fastening method	screw and snap-on mounting onto 35 mm DIN 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 +60 °C	
during storage	-40 +80 °C	
during transport	-40 +80 °C	
relative humidity during operation	10 95 %	
Approvals Certificates		
General Product Approval		EMV













EMV	Test Certificates	Maritime application	other
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KC Type Test Certificates/Test Report







Confirmation

Railway	Environment
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Confirmation Environmental Confirmations

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=3RQ2000-2CW01

Cax online generator

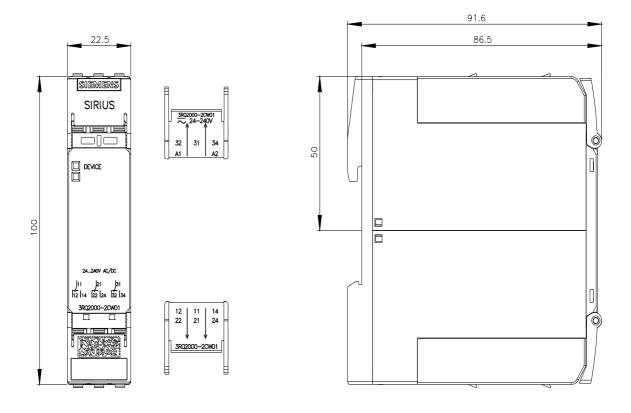
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RQ2000-2CW01}$

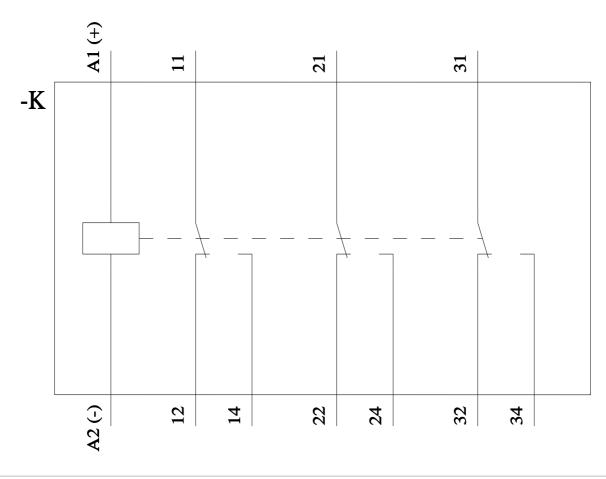
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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





last modified: 4/1/2025 🖸

