# SIEMENS

#### Data sheet

### 3RQ2000-1CW00



Coupling relay in industrial enclosure 3 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	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between control and auxiliary circuit according to IEC 60947-1</li> </ul>	300 V
protection class IP	IP20
shock resistance	
<ul> <li>according to IEC 60068-2-27</li> </ul>	11g / 15 ms
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
vibration resistance	
<ul> <li>according to IEC 60068-2-6</li> </ul>	10 55 Hz: 0.35 mm
<ul> <li>for railway applications according to EN 61373</li> </ul>	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
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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	

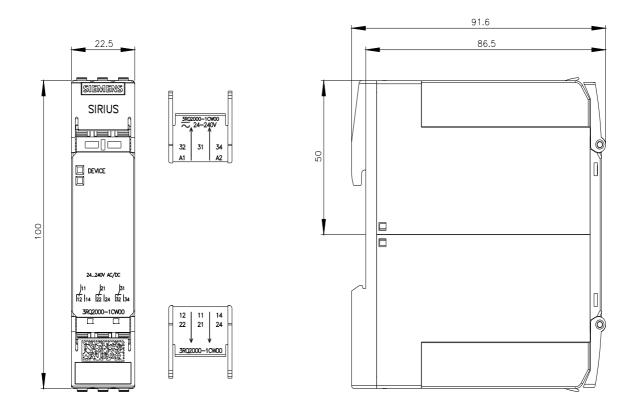
AC at 50 Hz	
• initial value	0.7
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.7
• full-scale value	1.1
ON-delay time	10
at AC maximum	10 ms
at DC maximum	10 ms
OFF-delay time	100 ms
design of the relay operating mechanism	poled
product component plug-in socket Short-circuit protection	No
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 6 A
switch required	
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0 3
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5
tuno of voltago	mA) AC/DC
type of voltage ampacity of the output relay at AC-15	
• at 24 V at 50/60 Hz	3 A
• at 24 V at 50/60 Hz	3 A
• at 250 V at 50/60 Hz	3A
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
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV (line to ground)
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV (line to line)
° °	1 kV (line to line) 10 V/m
61000-4-5	
61000-4-5 field-based interference according to IEC 61000-4-3	10 V/m
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data electromagnetic compatibility	10 V/m
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data	10 V/m 4 kV contact discharging, 8 kV air discharging
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data electromagnetic compatibility Connections/ Terminals	10 V/m 4 kV contact discharging, 8 kV air discharging IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
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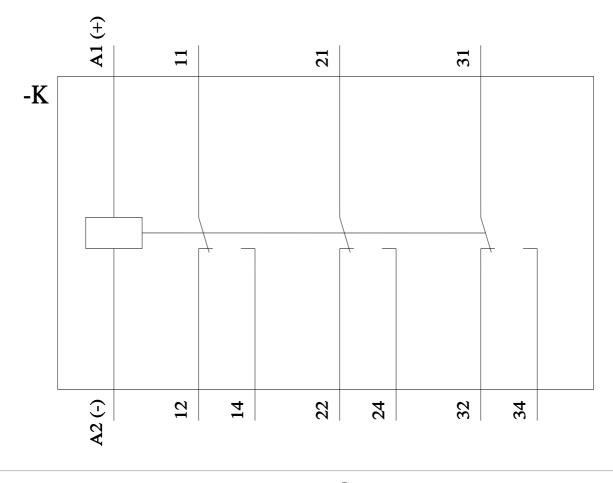
stallation/ mounting/						
mounting position			any			
fastening method			screw and snap-on mounting onto 35 mm DIN rail			
height			100 mm			
width			22.5 mm			
depth			90 mm			
mbient conditions						
nstallation altitude at h	neight above sea level ma	aximum	2 000 m			
ambient temperature						
<ul> <li>during operation</li> </ul>	1	-40 +60 °C				
<ul> <li>during storage</li> </ul>		-40 +80 °C				
<ul> <li>during transport</li> </ul>			-40 +80 °C			
relative humidity during	g operation		10 95 %			
ertificates/ approvals						
General Product App	proval				EMC	
(SP)	<u>Confirmation</u>			EHC	RCM	
Declaration of Confo	ormity	Test Certificates	Marine / Shipping			
UK CA	CE EG-Konf.	<u>Type Test Certi</u> ates/Test Repo		RINA	KMRS RMRS	
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CA Marine / Shipping Marine / Shipping Marine / Shipping Marine / Shipping rther information Siemens has decided https://press.siemens.co Siemens is working co Siemens is wo	other Confirmation d to exit the Russian ma com/global/en/pressrelear com the renewal of the cu cal Siemens office on the other than the sanctioned ackaging (.siemens.com/cs/ww/en/ wnloadcenter (Catalogs, com/ic10	Railway Confirmation Confirmation rket (see here). se/siemens-wind-dow rrent EAC certificat status of validity of th I EAEU member state view/109813875	<u>In-russian-business</u> es. ne EAC certification if you inter	to import or offer to sup	Ply these products to a	
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ2000-1CW00&lang=en

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