## **SIEMENS**

Data sheet 3RQ2000-2AW00



Coupling relay in industrial enclosure 1 changeover contact 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		
consumed active power	4 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		
<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	
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	

	0.7
initial value     full-scale value	
	1.1
-	10 ms
	10 ms
OFF-delay time	100 ms
	poled
	No
Short-circuit protection	
	fuse gL/gG: 6 A
Auxiliary circuit	
	AgSnO2
-	0
	0
-	1
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
	AC/DC
ampacity of the output relay at AC-15	
	3 A
	3 A
• at 250 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
	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	
• due to burst according to IEC 61000-4-4	2 kV
• due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to ground)
due to conductor-conductor surge according to IEC     61000-4-5	1 kV (line to line)
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging, 8 kV air discharging
Safety related data	
electromagnetic compatibility	IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	spring-loaded terminal (push-in)
type of connectable conductor cross-sections	
• solid	0.5 4 mm²
• finely stranded with core end processing	0.5 2.5 mm²
• at AWG cables solid	20 12
connectable conductor cross-section	
• solid	0.5 4 mm²
• finely stranded with core end processing	2.5 mm <sup>2</sup>
	0.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross section	
• solid	12 20
• stranded	12 20
7	10 mm
Installation/ mounting/ dimensions	
mounting position	any
mounting position	
	screw and snap-on mounting onto 35 mm DIN rail

width	22.5 mm	
depth	90 mm	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-40 +60 °C	
during storage	-40 +80 °C	
during transport	-40 +80 °C	
relative humidity during operation	10 95 %	
Certificates/ approvals		

General Product Approval





Confirmation







**EMC** 

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other

Railway



Confirmation

Confirmation

## 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=3RQ2000-2AW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ2000-2AW00

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

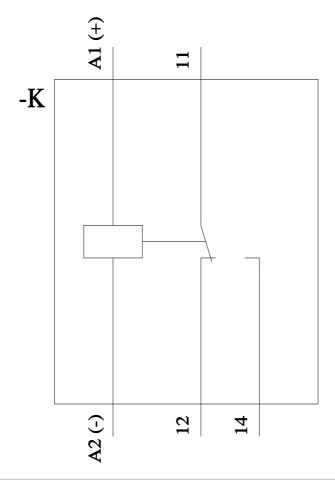
https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2AW00

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ2000-2AW00&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2AW00/manual



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