SIEMENS

Data sheet 3RQ2000-2BW00



Coupling relay in industrial enclosure 2 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		
consumed active power	4.5 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	
vibration resistance		
• acc. to IEC 60068-2-6	10 55 Hz: 0.35 mm	
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 IEC 81346-2	K	
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	AgSnO2
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	2
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)
EMC 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	1 kV (line to line)
61000-4-5	(
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. 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 function removable terminal for auxiliary and control circuit	Yes
type of electrical connection	Push-in terminal
type of connectable conductor cross-sections	
	T don't to think.
• solid	0.5 4 mm²
• solid	
	0.5 4 mm²
solidfinely stranded with core end processing	0.5 4 mm² 0.5 2.5 mm²
 solid finely stranded with core end processing at AWG cables solid connectable conductor cross-section solid connectable conductor cross-section finely stranded with core end processing 	0.5 4 mm ² 0.5 2.5 mm ² 20 12
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cross section stranded				
stripped length of the cable for auxiliary and control contacts	10 mm			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	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 +60 °C			
 ambient temperature during storage 	-40 +80 °C			
 ambient temperature during transport 	-40 +80 °C			
relative humidity during operation	10 95 %			
Certificates/ approvals				
General Product Approval		EMC		













Declaration of Conformity

Test Certificates

Marine / Shipping

other

Miscellaneous



Type Test Certificates/Test Report





Confirmation

Railway

Confirmation

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=3RQ2000-2BW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ2000-2BW00

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

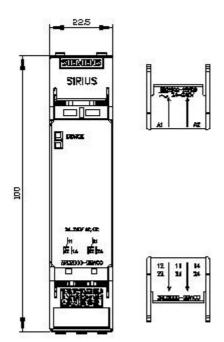
https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2BW00

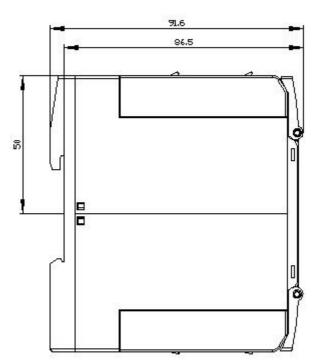
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

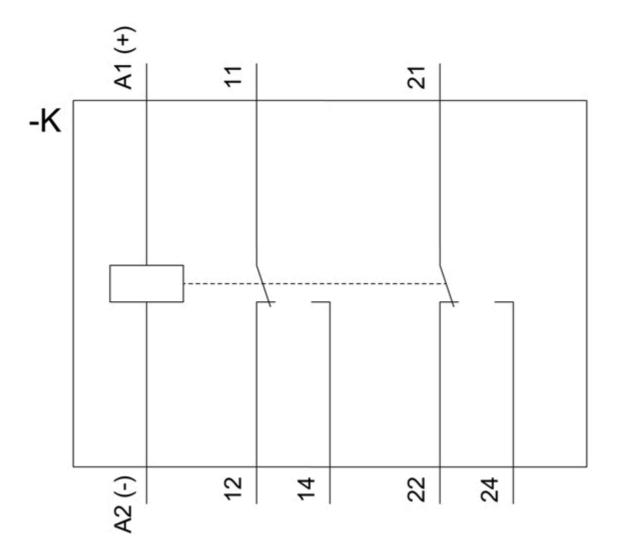
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ2000-2BW00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2BW00/manual







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