## **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			
<ul> <li>for overvoltage category III according to IEC 60664</li> </ul>			
— 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 acc. to IEC 60947-1</li> </ul>	300 V		
Protection class IP	IP20		
Shock resistance			
• acc. to IEC 60068-2-27	11g / 15 ms		
<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B		

Vibration resistance	
• acc. to IEC 60068-2-6	10 55 Hz: 0.35 mm
<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B
Switching behavior	monostable
Mechanical service life (switching cycles)	monostable
	10 000 000
• typical	
Electrical endurance (switching cycles)	400.000
• at AC-15 at 230 V typical	100 000
Thermal current of the switching element with contacts maximum	5 A
Reference code acc. to DIN EN 81346-2	К
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	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 6 A
Auxiliary circuit	
Auxiliary circuit Material of switching contacts	AgSnO2

Number of NO contacts for auxiliary contacts	0			
Number of CO contacts				
for auxiliary contacts	1			
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)			
EMI 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			
<ul> <li>due to conductor-earth surge acc. to IEC</li> <li>61000-4-5</li> </ul>	2 kV (line to ground)			
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (line to line)			
Field-bound parasitic coupling 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				
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	Yes			
Type of electrical connection	Push-in terminal			
Type of connectable conductor cross-sections				
• solid	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>			
• at AWG conductors solid	20 12			
Connectable conductor cross-section				
solid	0.5 4 mm²			

<ul> <li>finely stranded with core end processing</li> </ul>			2.5 mm <sup>2</sup>		
<ul> <li>finely stranded without core end processing</li> </ul>			0.5 mm²		
AWG number as cod	ed connectable con	ductor cross	-		
section					
• solid			12 20		
• stranded			12 20		
Wire stripping length	of the cable		-		
<ul> <li>for auxiliary and control contacts</li> </ul>		10 mm			
Installation/ mounting	g/ dimensions				
Mounting position		any			
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail			
Height		100 mm			
Width		22.5 mm			
Depth			90 mm		
Ambient conditions	<u> </u>	_			
Installation altitude at height above sea level					
• maximum		2 000 m			
Relative humidity					
<ul> <li>during operation</li> </ul>		10 95 %			
Certificates/ approva	als				
General Product	Approval			EMC	Declaration of Conformity
	CSA		EHE	RCM	EG-Konf.
Declaration of Conformity	Test Certific- ates	other	Railway		

Miscellaneous

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Type Test Certific-

ates/Test Report

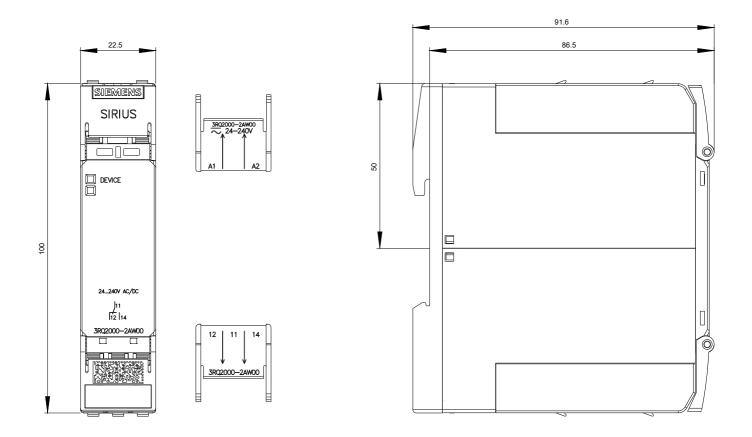
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ2000-2AW00

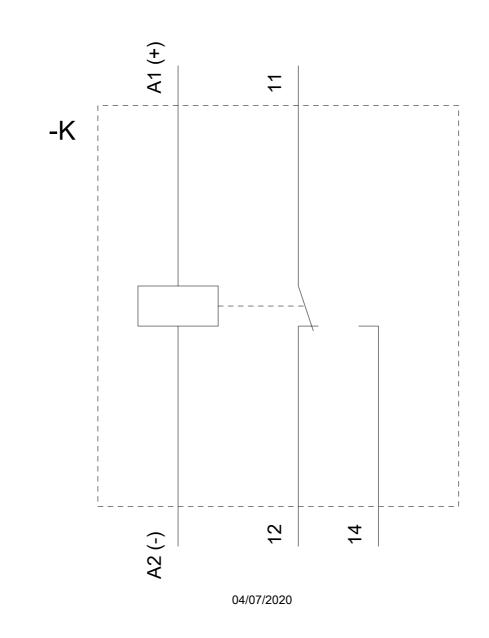
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ2000-2AW00

Confirmation

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2AW00

Confirmation





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