SIEMENS

Data sheet

3RQ1000-2EW00



Positively driven coupling relay in industrial enclosure 1 NO contact / 1 NC contact 24 V to 240 V AC/DC SIL 2 / PL c Spring-type terminals (push-in)

product brand nameSIRIUSproduct designationforce-guided coupling relaydesign of the productfail-safe up to SIL 2/PL cproduct type designation3RQ1General technical dataconsumed active power1.7 Winsulation voltage for overvoltage category III according to IEC300 V60664 with degree of pollution 3 rated value3degree of pollution3surge voltage resistance rated value4 kVprotection class IPIP20shock resistance11g / 15 msvibration resistance10 55 Hz: 0.35 mmoperating frequency maximum360 1/hswitching behaviormonostablemechanical service life (operating cycles) typical10 000 000thermal current of the switching element with contacts maximum5 A	
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mechanical service life (operating cycles) typical 10 000 000 thermal current of the switching element with contacts 5 A	
thermal current of the switching element with contacts 5 A	
reference code according to IEC 81346-2 K	
Substance Prohibitance (Date) 05/31/2018	
Product Function	
suitability for operation device connector 3ZY12 No	
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 0.85	
• full-scale value 1.1	
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value 0.85	
full-scale value 1.1	

ON-delay time			
• at AC maximum	50 ms		
at DC maximum	50 ms		
OFF-delay time	70 ms		
product component plug-in socket	No		
Short-circuit protection			
design of the fuse link for short-circuit protection of the auxiliary switch required	NO: fuse gL/gG: 6 A; NC: fuse gL/gG: 4 A		
Auxiliary circuit			
material of switching contacts	AgNi + Au flash		
number of NC contacts for auxiliary contacts	1		
number of NO contacts for auxiliary contacts	1		
number of CO contacts for auxiliary contacts	0		
type of voltage	AC/DC		
ampacity of the output relay at AC-15			
• at 250 V at 50/60 Hz	2 A		
ampacity of the output relay at DC-13			
• at 24 V	2 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			
Safety Integrity Level (SIL) according to IEC 61508	2		
	2		
SIL Claim Limit (subsystem) according to EN 62061	2 c		
SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 PFHD			
SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 PFHD • with high demand rate according to IEC 61508	c 4E-7 1/h		
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depth		90 r	90 mm			
Ambient conditions						
installation altitude at	nstallation altitude at height above sea level maximum					
ambient temperature						
 during operation 	n	-25	+60 °C			
 during storage 		-40	+80 °C			
 during transport 	t	-40	+80 °C			
relative humidity durir	ng operation	10 95 %				
Certificates/ approval	S					
General Product Ap	proval					
SP.	<u>Confirmation</u>				EHC	
EMC	Declaration of Conformity	ý	Marine / Shipping	other	Railway	
RCM	CE EG-Konf.	UK CA		<u>Confirmation</u>	<u>Confirmation</u>	
https://press.siemens Siemens is working Please contact your lo EAC relevant market	d to exit the Russian market (.com/global/en/pressrelease/sie on the renewal of the current ocal Siemens office on the statu (other than the sanctioned EAE	EAC certificates. s of validity of the E	AC certification if you inter	id to import or offer to sup	oply these products to an	
Information on the p https://support.industr	oackaging Ty.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=3RQ1000-2EW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ1000-2EW00

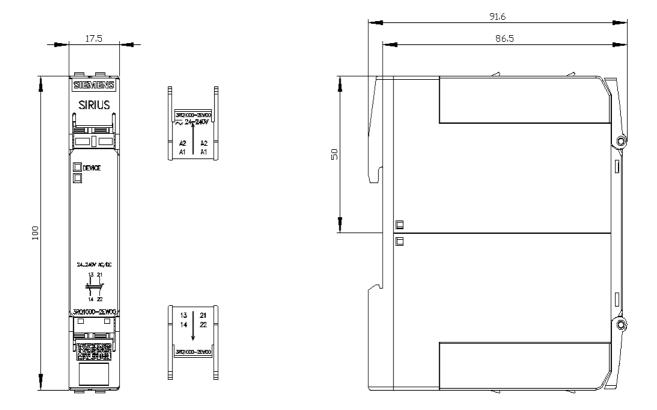
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

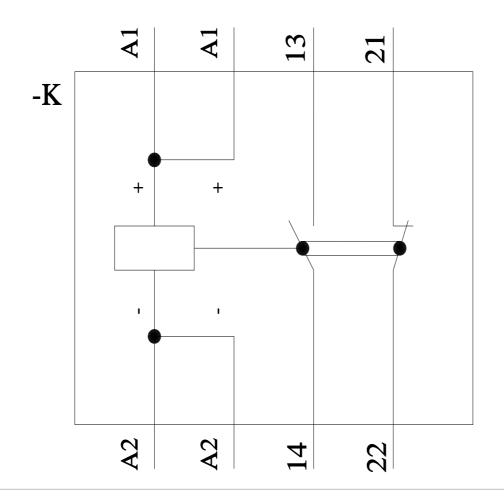
https://support.industry.siemens.com/cs/ww/en/ps/3RQ1000-2EW00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ1000-2EW00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ1000-2EW00/manual





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