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 SIRUS product designation Coupling relay in industrial enclosure product type designation 3RQ2 Consumed active power 4 W insulation voltage for overonltage category III according to IEC 60844 with degree of pollution 3 a 300 V surge voltage resistance rated value 4 kV maximum permissible voltage for safe Isolation 300 V • between auxiliary admixing vicruit 300 V • between control and auxiliary circuit according to IEC 60947-1 300 V protection class IP IP20 shock resistance auxiliary admixing to EC 60082-27 • for railway applications according to EN 61373 Category 1, Class B vibration resistance 10 65 Hzi 0.35 mm • for railway applications according to EN 61373 Category 1, Class B witching behavior monostable mechanical service life (switching cycles) typical 10 000 00 electrical endurance (switching cycles) typical 10 000 00 leberational distributione (Date) 05/31/2018 Control supply voltage 1 at AC 24 240 V • at DC 24 240 V				
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full-scale value 1.1 operating range factor control supply voltage rated value at AC at 50 Hz				
operating range factor control supply voltage rated value at AC at 50 Hz	initial value	0.7		
value at AC at 50 Hz	• full-scale value	1.1		
• initial value 0.7				
	• 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				
• 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	1			
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)			
type of voltage	AC/DC			
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 according to IEC 60947-1	ambience A (industrial sector)			
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	ambience A (industrial sector) corresponds to degree of severity 3			
EMC immunity according to IEC 60947-1				
EMC immunity according to IEC 60947-1 conducted interference	corresponds to degree of severity 3			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line)			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line)			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging			
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EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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 product component removable terminal for auxiliary and control circuit	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4 Yes spring-loaded terminal (push-in)			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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 product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4 Yes spring-loaded terminal (push-in) 0.5 4 mm ²			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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 product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4 Yes spring-loaded terminal (push-in) 0.5 4 mm ² 0.5 2.5 mm ²			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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 product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4 Yes spring-loaded terminal (push-in) 0.5 4 mm ²			
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EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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 product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid connectable conductor cross-section • solid	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4 Yes spring-loaded terminal (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 20 12 0.5 4 mm ²			
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 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 product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing	corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4 Yes spring-loaded terminal (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 20 12 0.5 4 mm ²			
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nstallation/ mounting/ dimensions					
mounting position	any				
fastening method		w and snap-on mountin	g onto 35 mm standard	d mounting rail	
height		mm			
width	22.5	5 mm			
depth		nm			
mbient conditions					
installation altitude at height above sea	level maximum 2 00)0 m			
ambient temperature					
 during operation 	-40	-40 +60 °C			
 during storage 	-40	+80 °C	;		
 during transport 	-40	+80 °C			
relative humidity during operation	10.	95 %			
ertificates/ approvals					
General Product Approval				EMC	
	<u>Confirmation</u>	U	EAC	RCM	
Declaration of Conformity	Test Certificates	Marine / Shipping			
UK CA CE EG-Konf.	Type Test Certific- ates/Test Report	Lloyds Kegister uis	RINA	RMRS	
Marine / Shipping other	Railway				
	n <u>Confirmation</u>				
urther information Information- and Downloadcenter (C	atalogs. Brochures)				

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