SIEMENS

Data sheet

3RQ2000-1CW00



Coupling relay in industrial enclosure 3 changeover contacts Wide voltage range 24 V to 240 V AC/DC Screw terminals

product brank name SIRUS product brank designation Coupling relay in industrial enclosure organization 3RQ2 consumed active power No consumed active power 5W mediation voltage for overvoltage category III according to IEC 300 V degree of politoins a rated value 4kV maximum permissible voltage for protective separation 300 V ebetween outrilary and auxiliary circuit 300 V ebetween outrol and auxiliary circuit according to IEC 800 V ebetween outrol and auxiliary circuit according to IEC 800 V ebetween outrol and auxiliary circuit according to IEC 800 V ebetween outrol and auxiliary circuit according to IEC 800 V ebetween auxiliary applications according to EK 60088-247 11g / 15 ms efor railway applications according to EK 61373 Category 1, Class B efor railway applications according to EK 61373 Category 1, Class B efor railway applications according to EK 61373 Category 1, Class B efor railway applications according to EK 61346-2 K thermal current of the switching element with contacts S A reference code		
product type designation 3RQ2 General technical data Image: Consumed active protective coating on printed-circuit board No consumed active power 5 W insulation voltage for overvoltage category III according to IEC 300 V 60664 with degree of polition 3 surge voltage resistance rated value 4 kV maximum permissible voltage for protective separation 300 V • between auxiliary and auxiliary circuit according to IEC 300 V • over othog and auxiliary circuit according to IEC 300 V • between auxiliary and auxiliary circuit according to IEC 300 V • between auxiliary and auxiliary circuit according to IEC 300 V • between control and auxiliary circuit according to IEC 300 V • botk resistance 100 V • according to IEC 60068-2-27 11g / 15 ms • for railway applications according to EN 61373 Category 1, Class B • of railway applications according to EN 61373 Category 1, Class B • of railway applications according to EC 61068-2-2 10 0:000 00 • electrical endurance (operating cycles) typical 10 0:000 00 • electrical endurance (operating cycles) typical 10 0:000 00 • electrical endurance (Date) 5 A Control druphy voltage 1 at AC 24 240 V • at 50 Hz	product brand name	SIRIUS
General technical data No product feature protective coating on printed-circuit board No consumed active power 5 W insulation voltage for overvoltage category III according to IEC 300 V 60064 with degree of pollution 3 surge voltage resistance rated value 4 kV maximum permissible voltage for protective separation 300 V • between control and auxiliary circuit 300 V • between auxiliary and auxiliary circuit 300 V • between control and auxiliary circuit 300 V • between control and auxiliary circuit 300 V • according to IEC 60068-2-27 11g / 15 ms • according to IEC 60068-2-6 10 55 Hz: 0.35 mm • according to IEC 60068-2-7 11g / 15 ms • according to IEC 60068-2-8 10 55 Hz: 0.35 mm • according to IEC 60068-2-6 10 55 Hz: 0.35 mm • according to IEC 60068-2-7 10 000 000 • according to IEC 60068-2-8 10 000 000 • for railway applications according to EN 61373 Category 1, Class B reference code according to IEC 81346-2 K Substance Prohibitance (parating cycles) at AC-15 at 230 V 100 000 typical 100 000 Control supply voltage 1 at AC 24 240 V • at 60 Hz 2	product designation	Coupling relay in industrial enclosure
product feature protective coating on printed-circuit board No consumed active power 5 W insulation voltage for verveltage category III according to IEC 300 V 6864 with degree of pollution 3 rated value 3 degree of pollution 3 surge voltage resistance rated value 4 kV maximum permissible voltage for protective separation • between auxiliary and auxiliary circuit 300 V • between control and auxiliary circuit 300 V 300 V • between control and auxiliary circuit 300 V 300 V • between control and auxiliary circuit 300 V 300 V • between control and auxiliary circuit according to IEC 300 V 300 V • between control and auxiliary circuit according to IEC 100 V 300 V • between control and auxiliary circuit according to IEC 11g / 15 ms 11g / 15 ms • according to IEC 60068-2-8 10 55 Hz: 0.35 mm Category 1, Class B • of or railway applications according to EN 61373 Category 1, Class B switching behavior monostable monostable mechanical service life (operating cycles) typical 10 0:000 <td< th=""><th>product type designation</th><th>3RQ2</th></td<>	product type designation	3RQ2
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between control and auxiliary circuit according to IEC goy47-1 IP20 Shock resistance according to IEC 60068-2-27 11g / 15 ms category 1, Class B vibration resistance according to IEC 60068-2-6 or railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 or railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 or railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 vibration resistance vibration resistance according to IEC 60068-2-6 vibration resistance vibration resistance vibration resistance according to IEC 60068-2-6 vibration resistance vibration resistance vibration resistance according to IEC 60068-2-6 vibration resistance vibr	maximum permissible voltage for protective separation	
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• according to IEC 60068-2-610 55 Hz: 0.35 mm• for railway applications according to EN 61373Category 1, Class Bswitching behaviormonostablemechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000ftermal current of the switching element with contacts maximum5 Areference code according to IEC 81346-2KSubstance Prohibitance (Date)05/31/2018Control supply voltage 1 at AC • at 60 Hz24 240 V• at 60 Hz24 240 V• at 60 Hz24 240 V• at 0DC24 240 V• operating range factor control supply voltage rated value at DC0.7• full-scale value0.7• full-scale value1.1	 for railway applications according to EN 61373 	Category 1, Class B
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control supply voltage 1 at AC 24 240 V • at 50 Hz 24 240 V • at 60 Hz 24 240 V control supply voltage 1 24 240 V • at DC 24 240 V operating range factor control supply voltage rated value at DC 0.7 • initial value 0.7 • full-scale value 1.1	Substance Prohibitance (Date)	05/31/2018
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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
AC at 50 Hz	• full-scale value	1.1
• initial value 0.7	operating range factor control supply voltage rated value at AC at 50 Hz	
	• initial value	0.7

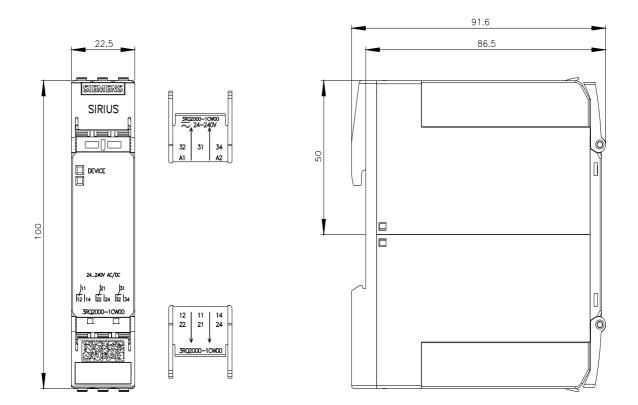
● full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 60 Hz	
• initial value	0.7
• full-scale value	1.1
ON-delay time	
• at AC maximum	10 ms
• at DC maximum	10 ms
OFF-delay time	100 ms
design of the relay operating mechanism	poled
product component plug-in socket	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	3
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 2 A
• at 250 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	1A
● at 24 V ● at 125 V	1 A 0.2 A
• at 125 V • at 250 V	0.2 A 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
product component removable terminal for auxiliary and	Yes screw-type terminals
product component removable terminal for auxiliary and control circuit	
product component removable terminal for auxiliary and control circuit type of electrical connection	screw-type terminals 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
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	screw-type terminals 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
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 • for AWG cables solid	screw-type terminals 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
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 • for AWG cables solid connectable conductor cross-section	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14)
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 • for AWG cables solid connectable conductor cross-section • solid	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ²
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 4 mm ²
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ²
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 4 mm ² 0.5 mm ²
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • solid	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 4 mm ² 0.5 mm ² 12 20
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • stranded	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 4 mm ² 0.5 mm ² 12 20 12 20
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • solid • solid • solid • solid • stranded tightening torque with screw-type terminals	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 4 mm ² 0.5 mm ² 12 20 12 20 0.6 0.8 N·m
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • solid • solid • solid • solid • stranded tightening torque with screw-type terminals stripped length of the cable for auxiliary and control contacts	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 4 mm ² 0.5 mm ² 12 20 12 20
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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • solid • solid • solid • solid • stranded tightening torque with screw-type terminals	screw-type terminals 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 0.5 4 mm ² 4 mm ² 0.5 mm ² 12 20 12 20 0.6 0.8 N·m

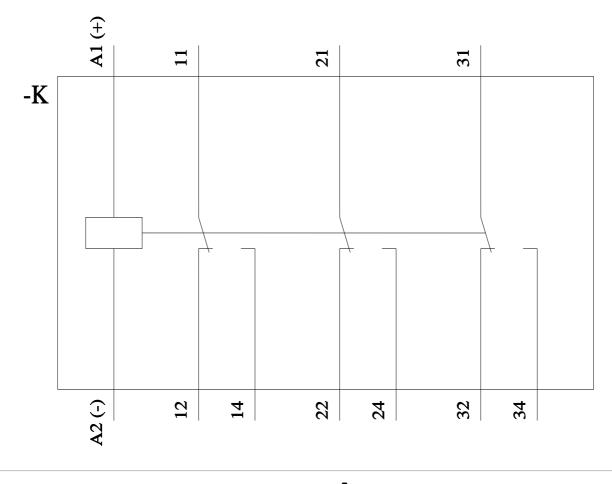
		20	rew and snap-on mounting o	onto 35 mm DIN rail	
astening method			0 mm		
width			.5 mm		
depth			mm		
nbient conditions					
	height above sea level m	avimum 2 (000 m		
ambient temperature			500 m		
 during operatio 		-40) +60 °C		
during operation during storage) +80 °C		
during transpor	t		-40 +80 °C		
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