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 focient according 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) ta AC-15 at 230 V 100 000 thermal current of the switching element with control supply voltage 1 at AC 5 A control supply voltage 1 at AC 24 240 V 24 240 V		
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contacts maximumreference code according to IEC 81346-2KSubstance Prohibitance (Date)05/31/2018Control circuit/ Controlcontrol supply voltage 1 at AC• at 50 Hz24 240 V• at 60 Hz24 240 Vcontrol supply voltage 1• at DC24 240 Voperating range factor control supply voltage rated value at DC0.7• initial value0.7• full-scale value1.1operating range factor control supply voltage rated value at AC at 50 Hz		100 000
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Control circuit/ Control control supply voltage 1 at AC • at 50 Hz • at 60 Hz 24 240 V control supply voltage 1 • at DC operating range factor control supply voltage rated value at DC • initial value 0.7 • full-scale value 1.1	reference code according to IEC 81346-2	К
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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
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	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
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
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	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
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
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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