SIEMENS

Data sheet

3RQ2000-2CW01



Coupling relay in industrial enclosure 3 hard gold-plated changeover contacts 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 consumed active protective coating on printed-circuit board No consumed active protective coating on printed-circuit board SW insulation voltage for overvoltage category III according to IEC 300 V code4 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 according to IEC 300 V gog47-1 300 V protection class IP IP20 shock resistance 19 / 15 ms • for railway applications according to EK 61373 Category 1, Class B vibration resistance 10 55 Hz: 0.35 mm • for railway applications according to EK 61373 Category 1, Class B witching behavior monostable mechanical service IIfe (operating cycles) typical 100 000 electrical anterne (operating cycles) typical 100 000 electrical anterne (operating cycles) typical 00001 vipical <th></th> <th></th>				
product type designation 3RQ2 Ceneral technical data Image: Consumed active protect ve coating on printed-circuit board No consumed active protect ve coating on printed-circuit board 5 W 300 V insulation voltage for overvoltage category III according to IEC 300 V 300 V degree of pollution 3 3 3 surge voltage resistance rated value 4 kV 4kV maximum permissible voltage for protective separation 300 V 300 V • between auxiliary and auxiliary circuit 300 V 300 V • between control and auxiliary circuit according to IEC 300 V 300 V object-resistance 100 V 300 V 300 V • according to IEC 60068-2-27 11g / 15 ms 4 according to IEC 60068-2-27 11g / 15 ms • according to IEC 60068-2-6 1055 Hz: 0.35 mm 5 according to IEC 60068-2-6 1055 Hz: 0.35 mm • according to IEC 60068-2-6 1055 Hz: 0.35 mm 5 A 300 V electrical endurance (operating cycles) typical 10 000 000 10 000 00 10 0000 electrical endurance (operating cycles) at AC-15 at 230 V	product brand name	SIRIUS		
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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 degree of pollution 3 surge voltage resistance 4 KV maximum permissible voltage for protective separation 4 kV • between auxiliary and auxiliary circuit 300 V • between control and auxiliary circuit according to IEC 300 V • between control and auxiliary circuit according to IEC 300 V • botoch resistance 11g / 15 ms • according to IEC 60068-2-7 11g / 15 ms • according to IEC 60068-2-8 10 55 Hz: 0.35 mm • for railway applications according to EN 61373 Category 1, Class B switching behavior monostable mechanical service IIf (operating cycles) typical 100 000 thermal	product type designation	3RQ2		
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60947-1P20protection class IPIP20shock resistance	 between auxiliary and auxiliary circuit 	300 V		
shock resistance 11g / 15 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance		300 V		
• according to IEC 60068-2-2711g / 15 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance-• according to IEC 60068-2-610 55 Hz: 0.35 mm• for railway applications according to EN 61373Category 1, Class Bswitching behaviormonostablemechanical service IIfe (operating cycles) typical10 000 000electrical endurance (operating cycles) typical1000 000electrical endurance (operating cycles) at AC-15 at 230 V100 000typical100 000thermal current of the switching element with contacts maximum5 Areference code according to IEC 81346-2KSubstance Prohibitance (Date)05/1/2018Control circuit/ Control24 240 V• at 50 Hz24 240 V• at 60 Hz24 240 V• at 0C24 240 V• operating range factor control supply voltage rated value at DC0.7• initial value0.7• initial value0.7• full-scale value1.1operating range factor control supply voltage rated value at AC at 50 Hz1.1	protection class IP	IP20		
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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 000thermal current of the switching element with contacts maximum5 Areference code according to IEC 81346-2KSubstance Prohibitance (Date)05/31/2018Control circuli/ ControlControl circuli/ Controlcontrol supply voltage 1 at AC • at 50 Hz24 240 V• at 0D Hz24 240 Vcontrol supply voltage 1 • at 0D Hz0.7• at 0D Hz1.1• at 0D Hz1.1• at 50 Hz1.1	 for railway applications according to EN 61373 	Category 1, Class B		
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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 • at DC operating range factor control supply voltage rated value at DC • initial value • full-scale value 0.7 1.1	reference code according to IEC 81346-2	К		
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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control supply voltage 1 24 240 V operating range factor control supply voltage rated value at DC 24 240 V • initial value 0.7 • full-scale value 1.1 operating range factor control supply voltage rated value at AC at 50 Hz 24 240 V	• at 50 Hz	24 240 V		
• at DC24 240 ∨operating 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 Hz1.1	• at 60 Hz	24 240 V		
operating range factor control supply voltage rated value at DC 0.7 • initial value 0.7 • full-scale value 1.1 operating range factor control supply voltage rated value at AC at 50 Hz 4	control supply voltage 1			
DC • initial value 0.7 • full-scale value 1.1 operating range factor control supply voltage rated value at AC at 50 Hz Full-scale value	• at DC	24 240 V		
• full-scale value • 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				
	• 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	fuen al /aC+6 A
switch required	fuse gL/gG: 6 A
Auxiliary circuit	
material of switching contacts	AgNi + Au
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 per 100 million (11 V, 2 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	1A
• 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	
	2 kV
• due to burst according to IEC 61000-4-4	
	2 kV (line to ground)
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	
 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 	2 kV (line to ground)
 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 	2 kV (line to ground) 1 kV (line to line)
• 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	2 kV (line to ground) 1 kV (line to line) 10 V/m
• 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	2 kV (line to ground) 1 kV (line to line) 10 V/m
• 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	2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging
• 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	2 kV (line to ground) 1 kV (line to line) 10 V/m 4 kV contact discharging, 8 kV air discharging
• 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	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
• 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	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
• 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	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)
• 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	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
• 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	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
• 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 • for AWG cables solid	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
• 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 • for AWG cables solid connectable conductor cross-section	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
 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 for AWG cables solid 	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
• 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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing	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
• 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 • for AWG cables solid Connectable conductor cross-section • solid • finely stranded with core end processing	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
• 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 • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing	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
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width		22.	5 mm		
depth			mm		
Ambient conditions					
installation altitude at h	height above sea level ma	aximum 2 0	00 m		
ambient temperature					
 during operatior 	n	-40	+60 °C		
 during storage 		-40	+80 °C		
 during transport 	t	-40	+80 °C		
relative humidity during	g operation	10	95 %		
Certificates/ approvals	;				
General Product App	proval				EMC
		Confirmation			
	CCC	Committation		EHC	RCM
Declaration of Confe		Test Certificates	Marine / Shipping	EAC	RCM
Declaration of Confo CSA			Marine / Shipping	ERIC	RCM
CE	ormity UK	Test Certificates		EAC	DIVIGL

		ition

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.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=3RQ2000-2CW01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ2000-2CW01

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

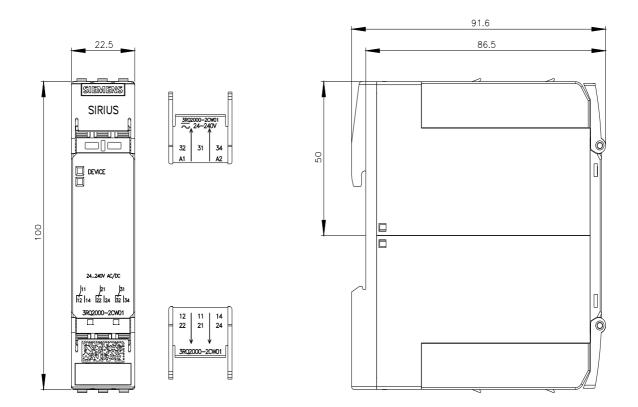
https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2CW01

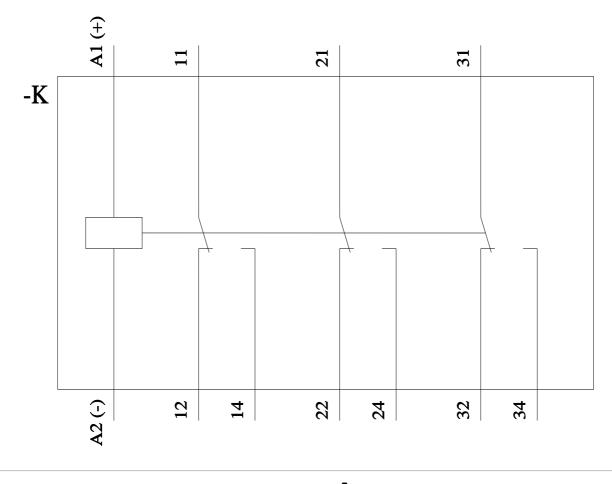
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ2000-2CW01&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-2CW01/manual





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