SIEMENS

Data sheet 3RQ1000-1EW00



Positively driven coupling relay in industrial enclosure 1 NO contact / 1 NC contact 24 V to 240 V AC/DC SIL 2 / PL c Screw terminals

product brand name	SIRIUS
product designation	force-guided coupling relay
design of the product	fail-safe up to SIL 2/PL c
product type designation	3RQ1
General technical data	
consumed active power	1.7 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
degree of pollution	3
surge voltage resistance rated value	4 kV
protection class IP	IP20
shock resistance	
• according to IEC 60068-2-27	11g / 15 ms
vibration resistance	
• according to IEC 60068-2-6	10 55 Hz: 0.35 mm
operating frequency maximum	360 1/h
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
thermal current of the switching element with contacts maximum	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 * all AC maximum 50 ms Product component plugial necket No Shared circuit component plugial necket No Shared circuit component plugial necket No Shared circuit component plugial necket Application of the sale link for shart-crout protection of the auxiliary south. No: fuse gLygG: 8 x. NC: fuse gLygG: 4 A souther of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts ** all 250 V at 250 V		
## ADC maximum 55 ms ## Product component plug-in a ceket No ## Product component removable terminal for a uxiliary and control contacts ## Product component removable terminal for a uxiliary and control contacts ## Product component removable terminal for a uxiliary and control contacts ## No #	ON-delay time	
OFF-delay time 70 ms 70	• at AC maximum	50 ms
Froduct component plug-in socket Chesting of the fise link for short-circuit protection of the auxiliary and the self-in for short-circuit protection of the auxiliary and the self-in foreshort (residue) April 1997 (residue) April 2007 (res	at DC maximum	50 ms
Short-discult protection design of the face link for short-creuit protection of the auxiliary which required Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 2 number of CC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 2 compactly of the output relay at AC-15 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OFF-delay time	70 ms
design of the fuse link for short-circuit protection of the auxiliary switch required. Auxiliary circuit. markerial of switching contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 2 Nps of voltage ACIDC auxiliary of the output relay at AC-15 at 250 V at 5000 Hz 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A	product component plug-in socket	No
switch required Maxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 2 mapacity of the output relay at AC-15 all 250 V 2 ampacity of the output relay at AC-15 all 250 V 2 an at 250 V 2 at 1250 V 2 at 1250 V 2 at 250 V 2 at 1250 V 2 at 250 V 2 at 25	Short-circuit protection	
material of switching contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts 1 number of N		NO: fuse gL/gG: 6 A; NC: fuse gL/gG: 4 A
number of NC contacts for auxiliary contacts 1 number of OC contacts for auxiliary contacts 1 number of OC contacts for auxiliary contacts 1 nyp of voltage ACDC ### 250 V at 50/60 Hz 2 A ### 250 V at 50/60 Hz 2 A ### 2124 V 1125 V	Auxiliary circuit	
number of NO contacts for auxillary contacts number of CO contacts for auxillary contacts number of CO contacts for auxillary contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO contacts for auxillary and control contacts 10 number of CO number of number	material of switching contacts	AgNi + Au flash
Uppe of Voltage	number of NC contacts for auxiliary contacts	1
type of voltage ampacity of the output relay at AC-15	number of NO contacts for auxiliary contacts	1
ampacity of the output relay at AC-15 • at 250 V at 5000 Hz • at 24 V 2 A • at 1250 V • at 250 V at 5000 Hz • at 250 V • at 250	number of CO contacts for auxiliary contacts	0
ampacity of the output relay at DC-13 • at 250 V • at 1250 V • at 1250 V • at 1250 V Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burnt according to IEC 60947-1 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-onductor surge according to IEC 61000-4-5 • due to conductor-onductor surge according to IEC 61000-4-5 • due to conductor-onductor surge according to IEC 61000-4-3 • due to conductor-onductor surge according to IEC 61000-4-2 • fletd-based interference according to IEC 61508 • Safety Integrity Level (SIL) according to IEC 61508 • Safety Integrity Level (SIL) according to IEC 61508 • with high demand rate according to IEC 61508 • with high demand rate according to IEC 61508 • with low demand rate according to IEC 61508 • with low demand rate according to IEC 61508 • lectromagnetic compatibility IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4 Connections / forminals rype of connectable conductor cross-section • solid • finely stranded with core end processing • for ANG cables solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) • finely stranded with core end processing • for ANG cables solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) • finely stranded with core end processing • for ANG cables solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) • finely stranded with core end processing • for ANG cables solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) • finely stranded with core end processing • for ANG cables solid 1x (type of voltage	AC/DC
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* at 24 V * at 125 V * 0.2 A * 0.2 A * 0.2 A * 0.1 A *	• at 250 V at 50/60 Hz	2 A
at 125 V 0.1 A 0.1	ampacity of the output relay at DC-13	
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SIL Claim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN ISO 13849-1 c PFHD • with high demand rate according to IEC 61508 4E-7 1/h • with high demand rate according to IEC 61508 0.004 1/h hardware fault tolerance according toler		
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hardware fault tolerance according to IEC 61508 electromagnetic compatibility Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection wire length at DC maximum 2 000 m 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 • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded to connectable conductor cross section • solid • stranded 12 20 • stranded 12 20 • stranded its crew-type terminals stripped length of the cable for auxiliary and control contacts Installation/ mounting/ dimensions mounting position fastening method		
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section		0.5 mm²
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tightening torque with screw-type terminals stripped length of the cable for auxiliary and control contacts 10 mm Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail		
stripped length of the cable for auxiliary and control contacts Installation/ mounting/ dimensions mounting position fastening method any screw and snap-on mounting onto 35 mm DIN rail		
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail		0.6 0.8 N·m
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail		10 mm
fastening method screw and snap-on mounting onto 35 mm DIN rail	Installation/ mounting/ dimensions	
	mounting position	any
height 100 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail
	height	100 mm

width	17.5 mm	
depth	90 mm	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-25 +60 °C	
 during storage 	-40 +80 °C	
during transport	-40 +80 °C	
relative humidity during operation	10 95 %	
Certificates/ approvals		

General Product Approval



Confirmation









EMC

Declaration of Conformity

Marine / Shipping

other

Railway









Confirmation

Confirmation

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=3RQ1000-1EW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ1000-1EW00

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

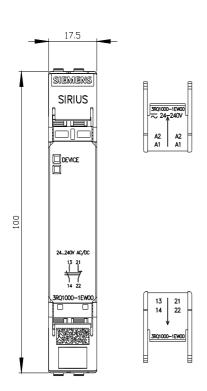
https://support.industry.siemens.com/cs/ww/en/ps/3RQ1000-1EW00

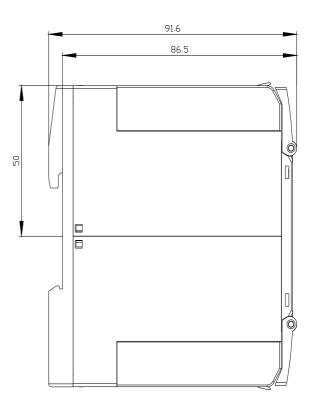
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

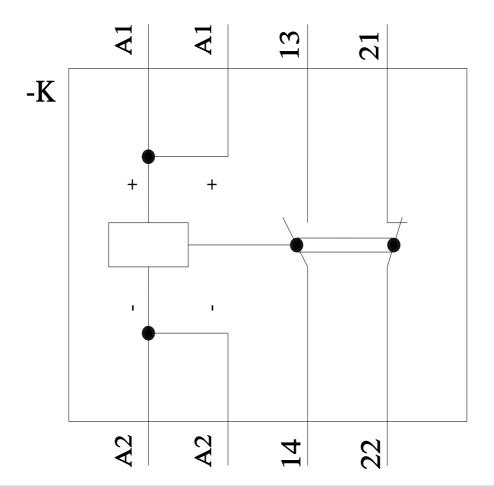
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ1000-1EW00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ1000-1EW00/manual







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