SIEMENS

Data sheet 3RQ3038-1AE00



Input coupler Relay coupler, 1 change-over contact 115 V AC/DC Overall width 6.2 mm screw terminal Thermal current 6A $\,$

product brand name	SIRIUS
product category	SIRIUS 3RQ3 coupling relays in slim design
product designation	Coupling relays with relay output (not plug-in)
design of the product	Input coupling link
product type designation	3RQ3
General technical data	
display version LED	Yes
product component	
relay output	Yes
semi-conductor output	No
consumed active power	0.5 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
surge voltage resistance rated value	4 kV
maximum permissible voltage for safe isolation	
between control and auxiliary circuit	300 V
percental drop-out voltage related to the input voltage	9.6 %
protection class IP	IP20
flammability class of enclosure material	UL94 V-0
shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance	
• acc. to IEC 60068-2-6	6 150 Hz: 2 g
operating frequency maximum	72 000 1/h
switching behavior	monostable
mechanical service life (switching cycles) typical	10 000 000
thermal current	6 A
reference code acc. to IEC 81346-2	K
Substance Prohibitance (Date)	25.03.2015
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	115 V
at 60 Hz rated value	115 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at DC	
rated value	115 V
operating range factor control supply voltage rated value at DC	

● initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.8
full-scale value	1.1
ON-delay time	
 at AC maximum 	8 ms
at DC maximum	6 ms
OFF-delay time	17 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 gG: 4 A
Auxiliary circuit	
type of switching contact	Changeover contact
material of switching contacts	AgSnO2
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
● at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 125 V	0.2 A
● at 250 V	0.1 A
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
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contact reliability of auxiliary contacts Main circuit	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
contact reliability of auxiliary contacts Main circuit type of voltage	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
contact reliability of auxiliary contacts Main circuit type of voltage Inputs/ Outputs	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) AC/DC
contact reliability of auxiliary contacts Main circuit type of voltage Inputs/ Outputs property of the output short-circuit proof	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) AC/DC
contact reliability of auxiliary contacts Main circuit type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) AC/DC
contact reliability of auxiliary contacts Main circuit type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) AC/DC No 3 A
contact reliability of auxiliary contacts Main circuit type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) AC/DC No 3 A
contact reliability of auxiliary contacts Main circuit type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) AC/DC No 3 A 1 A 0.2 A
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• solid	1x (0.25 2.5 mm²)	
 finely stranded with core end processing 	1x (0.25 1.5 mm²)	
at AWG cables solid	1 x (20 14)	
connectable conductor cross-section		
• solid	0.25 2.5 mm²	
finely stranded with core end processing	0.25 1.5 mm²	
AWG number as coded connectable conductor cross section		
• solid	20 14	
tightening torque with screw-type terminals	0.5 0.6 N·m	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	snap-on mounting	
height	93 mm	
width	6.2 mm	
depth	72.5 mm	
required spacing		
 with side-by-side mounting 		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
 for grounded parts 		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— at the side	0 mm	
— downwards	0 mm	
 for live parts 		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-25 +60 °C	
during storage	-40 +85 °C	
during transport	40 +85 °C	
relative humidity during operation	10 95 %	
Certificates/ approvals		
General Product Approval	EMC	

General Product Approval















Declaration of Conformity

Test Certificates

Marine / Shipping

other

Miscellaneous



Type Test Certificates/Test Report



Confirmation

Further information

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=3RQ3038-1AE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3038-1AE00

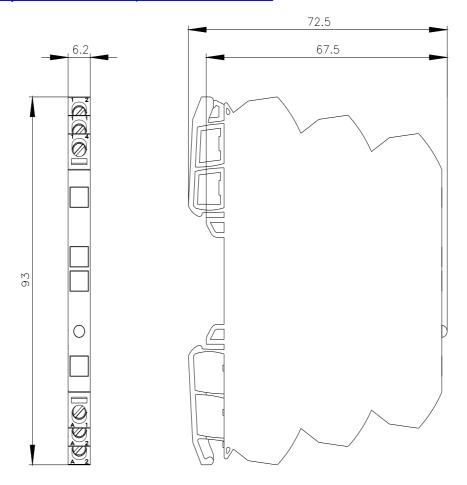
 $Service \& Support \ (Manuals, Certificates, Characteristics, FAQs, ...)$

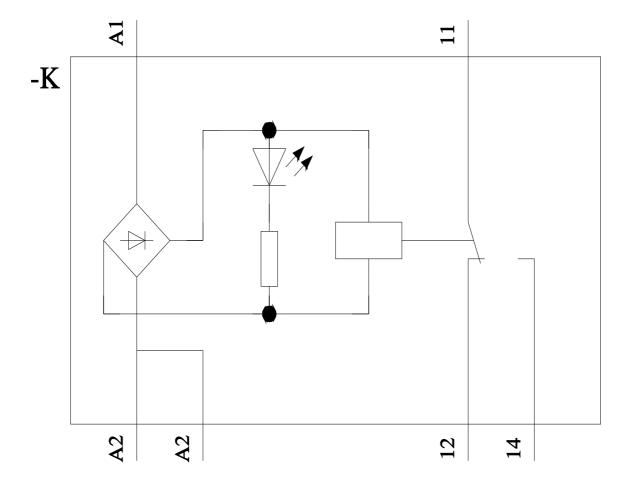
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3038-1AE00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3038-1AE00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3038-1AE00/manual





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