SIEMENS

Data sheet

3RQ3118-1AM01



Output coupler with plug-in Relay, 1 CO, hard gold-plated screw terminal 24 V DC Enclosure width 6.2 mm Thermal current 6A

product brand name	SIRIUS		
product category	SIRIUS 3RQ3 coupling relays in slim design		
product designation	Coupling relays with plug-in relay		
design of the product	Output 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	0.3 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	10 %		
protection class IP	IP20		
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	К		
Control circuit/ Control			
control supply voltage at DC			
rated value	24 V		
operating range factor control supply voltage rated value at DC			
 initial value 	0.8		
full-scale value	1.25		
switch ON delay time			
at DC maximum	12 ms		
OFF delay time	13 ms		
design of the relay operating mechanism	poled		

product component plug-in socket	Yes		
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-HTV		
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	1A		
• 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 (5 V, 1 mA) $$		
Main circuit			
type of voltage	DC		
Inputs/ Outputs			
property of the output short-circuit proof	No		
Outputs			
ampacity of the output relay at AC-15 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	0.177		
EMC emitted interference acc. to IEC 60947-1	ambience A (industrial sector)		
	ambience A (industrial sector)		
EMC immunity acc. to IEC 60947-1 conducted interference	corresponds to degree of severity 3		
due to burst acc. to IEC 61000-4-4	2 kV		
 due to burst acc. to IEC 01000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV		
 due to conductor-conductor surge acc. to IEC 01000-4-5 due to conductor-conductor surge acc. to IEC 	1 kV		
61000-4-5			
field-based interference acc. to IEC 61000-4-3	10 V/m		
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge		
Display			
display version as status display by LED	LED green		
Connections/ Terminals			
product function removable terminal	No		
type of electrical connection for auxiliary and control circuit	screw-type terminals		
wire length			
• at DC maximum	1 000 m		
type of connectable conductor cross-sections			
• solid	1x (0.25 2.5 mm²)		
 finely stranded with core end processing 	1x (0.25 1.5 mm ²)		
at AWG cables solid	1 x (20 14)		
 connectable conductor cross-section solid 	0.25 2.5 mm²		
 connectable conductor cross-section finely stranded with core end processing 	0.25 1.5 mm ²		
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	76 ו	nm		
required spacing				
 with side-by-side mounting 				
— forwards	0 m	m		
— backwards	0 m	m		
— upwards	0 m	m		
— downwards	0 m	m		
— at the side	0 m	m		
 for grounded parts 				
— forwards	0 m	m		
— backwards	0 m	m		
— upwards	0 m	m		
— at the side	0 m	m		
— downwards	0 m	m		
for live parts				
— forwards	0 m	m		
— backwards	0 m	m		
— upwards	0 m			
— downwards	0 m			
— at the side	0 m			
mbient conditions	0 11.			
installation altitude at height above sea level maximum	1 2.00	00 m		
		+60 °C		
ambient temperature during operation		+85 °C		
ambient temperature during storage		+85 °C		
ambient temperature during transport		95 %		
relative humidity during operation	10 .	95 %		
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General Product Approval				EMC
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-1AM01

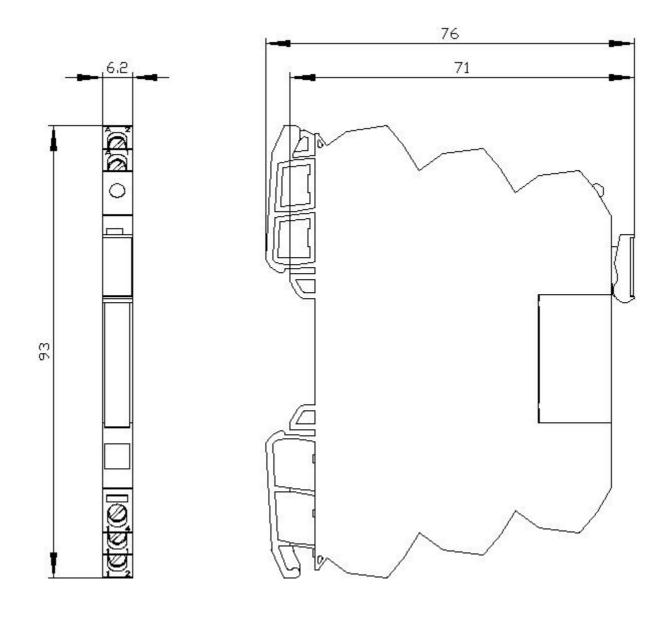
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AM01

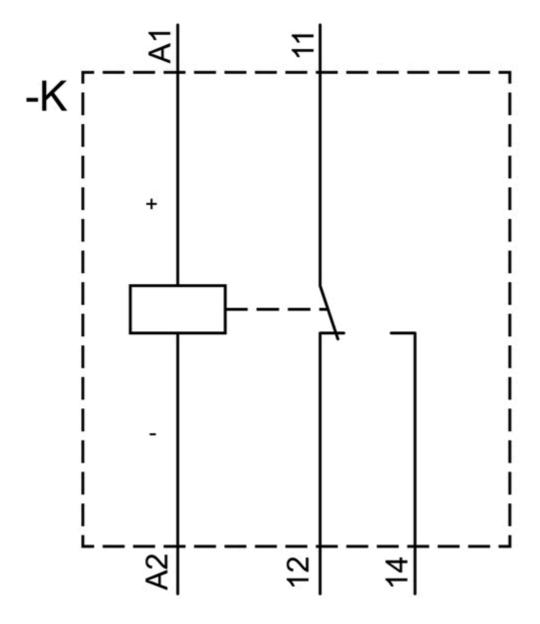
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-1AM01&lang=en

Characteristic: Derating

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