## SIEMENS

## Data sheet

## 3RQ3055-1SM30

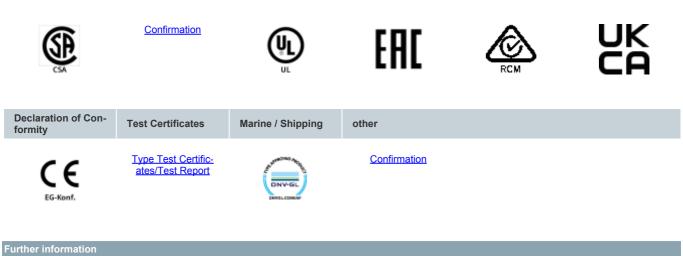
	Output coupler Optocoupler 1 S, transistor, 24 V DC Output max. 30 V DC, 5 A		
	Short circuit-proof Screw terminal Overall width 6.2 mm Thermal current 5 A		
product brand name	SIRIUS		
product category	SIRIUS 3RQ3 coupling relays in slim design		
product designation	Coupling relays with semiconductor output (not plug-in)		
design of the product	Output coupling link		
product type designation	3RQ3		
General technical data			
display version LED	Yes		
product feature protective coating on printed-circuit board	No		
product component			
<ul> <li>relay output</li> </ul>	No		
<ul> <li>semi-conductor output</li> </ul>	Yes		
consumed active power	0.3 W		
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	50 V		
surge voltage resistance rated value	2.5 kV		
protection class IP	IP20		
flammability class of enclosure material	UL94 V-0		
shock resistance			
<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms		
vibration resistance			
according to IEC 60068-2-6	6 150 Hz: 2 g		
switching frequency	100 Hz		
thermal current	5 A		
reference code according to IEC 81346-2	К		
Out-to-a Destrikitor of (Deta)	02/25/2015		
Substance Prohibitance (Date)	03/25/2015		
Control circuit/ Control	03/29/2015		
	03/29/2015		
Control circuit/ Control	11 30 V		
Control circuit/ Control control supply voltage at DC			
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at			
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC	11 30 V		
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC • initial value	11 30 V 1		
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value	11 30 V 1 1		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time	11 30 V 1 1 1 11 V 5 V		
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value minimum switching voltage when switching on maximum switching voltage when switching off	11 30 V 1 1 1 11 V		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time	11 30 V 1 1 1 11 V 5 V		
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value minimum switching voltage when switching on maximum switching voltage when switching off ON-delay time • at DC maximum OFF-delay time product component plug-in socket	11 30 V 1 1 1 1 1 1 V 5 V 0.2 ms		
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value minimum switching voltage when switching on maximum switching voltage when switching off ON-delay time • at DC maximum OFF-delay time	11 30 V 1 1 1 1 1 V 5 V 0.2 ms 0.3 ms		
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value minimum switching voltage when switching on maximum switching voltage when switching off ON-delay time • at DC maximum OFF-delay time product component plug-in socket	11 30 V 1 1 1 1 1 V 5 V 0.2 ms 0.3 ms		
Control circuit/ Control control supply voltage at DC • rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value minimum switching voltage when switching on maximum switching voltage when switching off ON-delay time • at DC maximum OFF-delay time product component plug-in socket Auxiliary circuit	11 30 V 1 1 1 1 1 1 V 5 V 0.2 ms 0.3 ms No		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact	11 30 V 1 1 1 1 1 1 V 5 V 0.2 ms 0.3 ms No NO contact		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact         number of NO contacts for auxiliary contacts	11 30 V 1 1 1 1 1 1 V 5 V 0.2 ms 0.3 ms No NO contact		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact         number of NO contacts for auxiliary contacts         Main circuit	11 30 V 1 1 1 1 1 1 1 V 5 V 0.2 ms 0.3 ms No NO contact 1		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contacts         main circuit         type of voltage	11 30 V 1 1 1 1 1 1 1 V 5 V 0.2 ms 0.3 ms No NO contact 1		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact         number of NO contacts for auxiliary contacts         Main circuit         type of voltage         Inputs/ Outputs	11 30 V 1 1 1 1 1 1 1 5 V 0.2 ms 0.3 ms No NO contact 1 DC		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact         number of NO contacts for auxiliary contacts         Main circuit         type of voltage         Inputs/ Outputs         property of the output short-circuit proof	11 30 V 1 1 1 1 1 1 1 5 V 0.2 ms 0.3 ms No No No No DC Yes		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact         number of NO contacts for auxiliary contacts         Main circuit         type of voltage         Inputs/ Outputs         property of the output short-circuit proof         switching voltage of the semiconductor output at DC	11 30 V 1 1 1 1 1 1 1 5 V 0.2 ms 0.3 ms No No No No DC Yes 10 30 V		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact         number of NO contacts for auxiliary contacts         Main circuit         type of voltage         Inputs/ Outputs         property of the output short-circuit proof         switching voltage of the semiconductor output at DC         ampacity of the semiconductor output at DC	11 30 V 1 1 1 1 1 1 1 5 V 0.2 ms 0.3 ms No No No No DC Yes 10 30 V		
Control circuit/ Control         control supply voltage at DC         • rated value         operating range factor control supply voltage rated value at DC         • initial value         • full-scale value         minimum switching voltage when switching on         maximum switching voltage when switching off         ON-delay time         • at DC maximum         OFF-delay time         product component plug-in socket         Auxiliary circuit         type of switching contact         number of NO contacts for auxiliary contacts         Main circuit         type of voltage         Inputs/ Outputs         property of the output short-circuit proof         switching voltage of the semiconductor output at DC         ampacity of the semiconductor output at DC         Electromagnetic compatibility	11 30 V 1 1 1 1 1 1 1 1 1 1 5 V 0.2 ms 0.3 ms No 0.3 ms No No NO contact 1 DC Yes 10 30 V 5 mA 5 A		



<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV		
due to conductor-earth surge according to IEC 61000-4-5	2 KV		
due to conductor-conductor surge according to IEC     61000-4-5	1 kV		
field-based interference according to IEC 61000-4-3	10 V/m		
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV a	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)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm²)		
<ul> <li>for AWG cables solid</li> </ul>	1 x (20 14)		
connectable conductor cross-section			
• solid	0.25 2.5 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	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		
nstallation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	93 mm		
width	6.2 mm		
depth	72.5 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— 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			
			Declaration of Con
General Product Approval		EMC	formity



11/7/2023



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=3RQ3055-1SM30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3055-1SM30

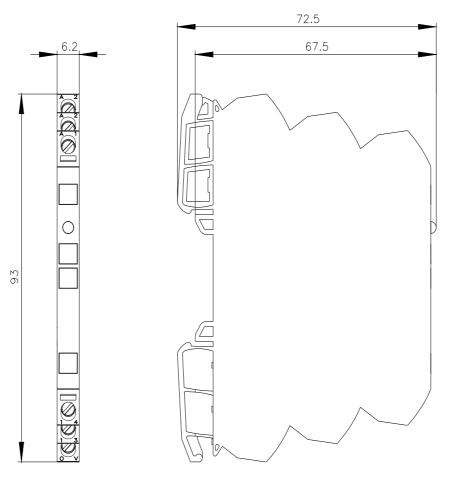
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-1SM30

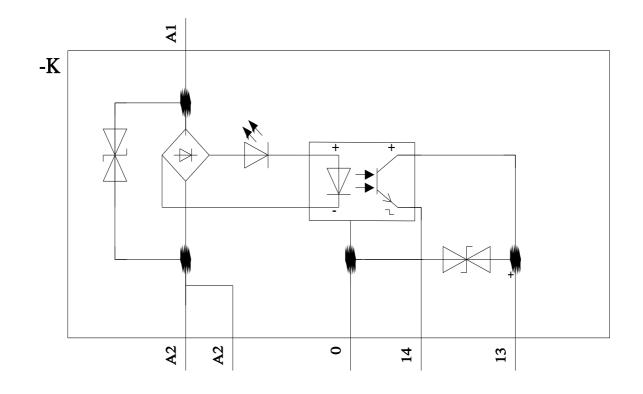
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3055-1SM30&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3055-1SM30&lang=en</a>

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-1SM30/manual







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