

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 component	
• relay output	No
• semi-conductor output	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
shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms

vibration resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-6 	6 ... 150 Hz: 2 g
switching frequency	100 Hz
thermal current	5 A
reference code acc. to IEC 81346-2	K

Control circuit/ Control

control supply voltage at DC	
<ul style="list-style-type: none"> • rated value 	11 ... 30 V
operating range factor control supply voltage rated value at DC	
<ul style="list-style-type: none"> • initial value • full-scale value 	1 1
switch ON delay time	
<ul style="list-style-type: none"> • at DC maximum 	0.2 ms
OFF delay time	0.3 ms
product component plug-in socket	No

Auxiliary circuit

type of switching contact	NO contact
number of NO contacts for auxiliary contacts	1

Main circuit

type of voltage	DC
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Inputs/ Outputs

property of the output short-circuit proof	Yes
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Outputs

ampacity of the semiconductor output at DC	5 mA ... 5 A
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Electromagnetic compatibility

EMC emitted interference	
<ul style="list-style-type: none"> • acc. to IEC 60947-1 	ambience A (industrial sector)
EMC immunity	
<ul style="list-style-type: none"> • acc. to IEC 60947-1 	corresponds to degree of severity 3
conducted interference	
<ul style="list-style-type: none"> • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV 2 kV 1 kV
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	
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- as status display by LED

LED green

Connections/ Terminals

product function	
<ul style="list-style-type: none"> • removable terminal 	No
type of electrical connection	
<ul style="list-style-type: none"> • for auxiliary and control circuit 	screw-type terminals
wire length	
<ul style="list-style-type: none"> • at DC maximum 	1 000 m
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • solid 	1x (0.25 ... 2.5 mm ²)
<ul style="list-style-type: none"> • finely stranded with core end processing 	1x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> • at AWG cables solid 	1 x (20 ... 14)
connectable conductor cross-section	
<ul style="list-style-type: none"> • solid 	0.25 ... 2.5 mm ²
<ul style="list-style-type: none"> • finely stranded with core end processing 	0.25 ... 1.5 mm ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • solid 	20 ... 14
tightening torque	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side 	0 mm
	0 mm
	0 mm
	0 mm
	0 mm
<ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — forwards — backwards — upwards — at the side — downwards 	0 mm
	0 mm
	0 mm
	0 mm
	0 mm
<ul style="list-style-type: none"> • for live parts <ul style="list-style-type: none"> — forwards 	0 mm

— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm

Ambient conditions

<ul style="list-style-type: none"> • installation altitude at height above sea level maximum 	2 000 m
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-25 ... +60 °C -40 ... +85 °C -40 ... +85 °C
relative humidity	
<ul style="list-style-type: none"> • during operation 	10 ... 95 %

Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
 CSA  UL	 EAC  RCM	 CE EG-Konf.

[Miscellaneous](#)

Marine / Ship- ping	other
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[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=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,...)

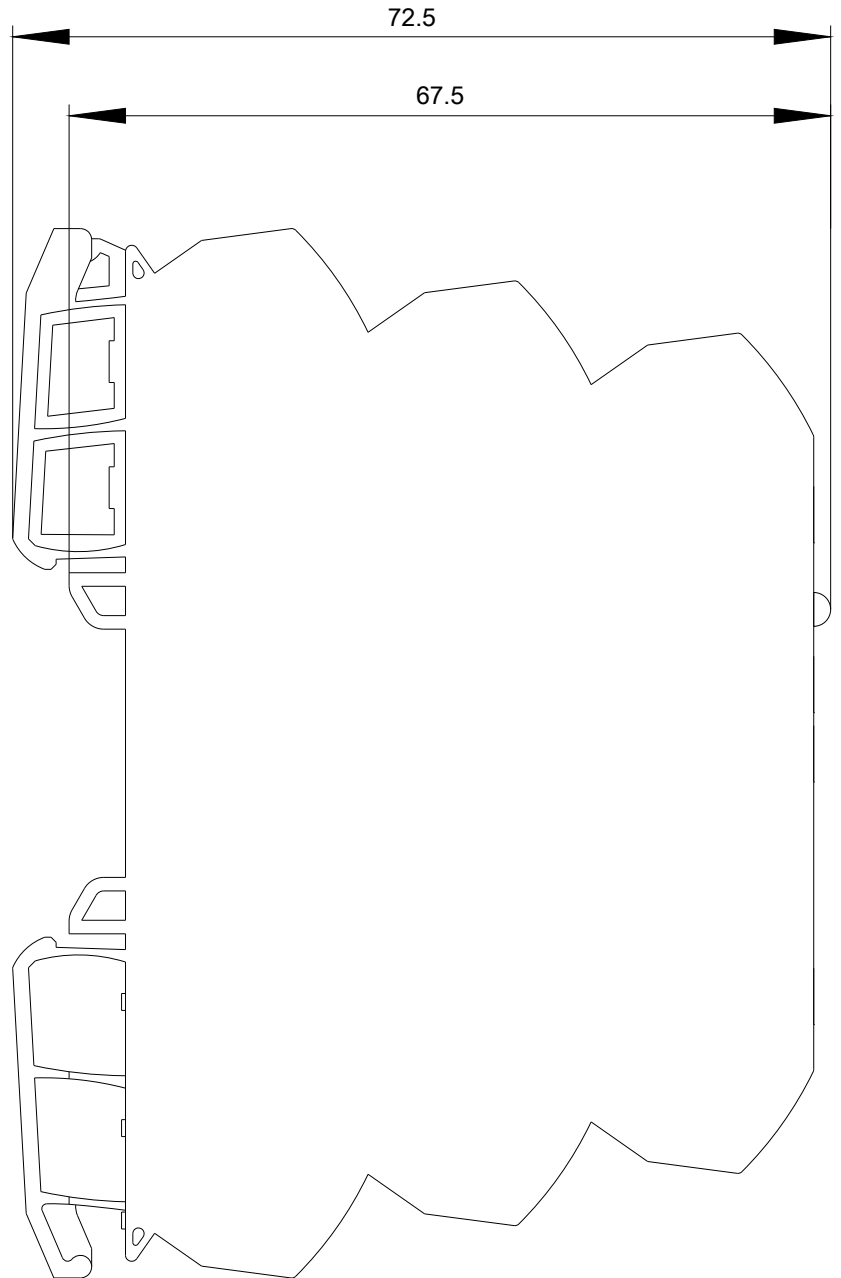
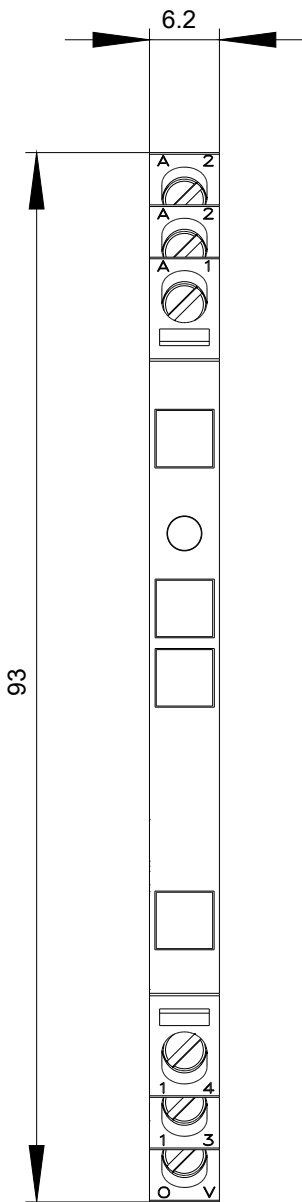
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-1SM30>

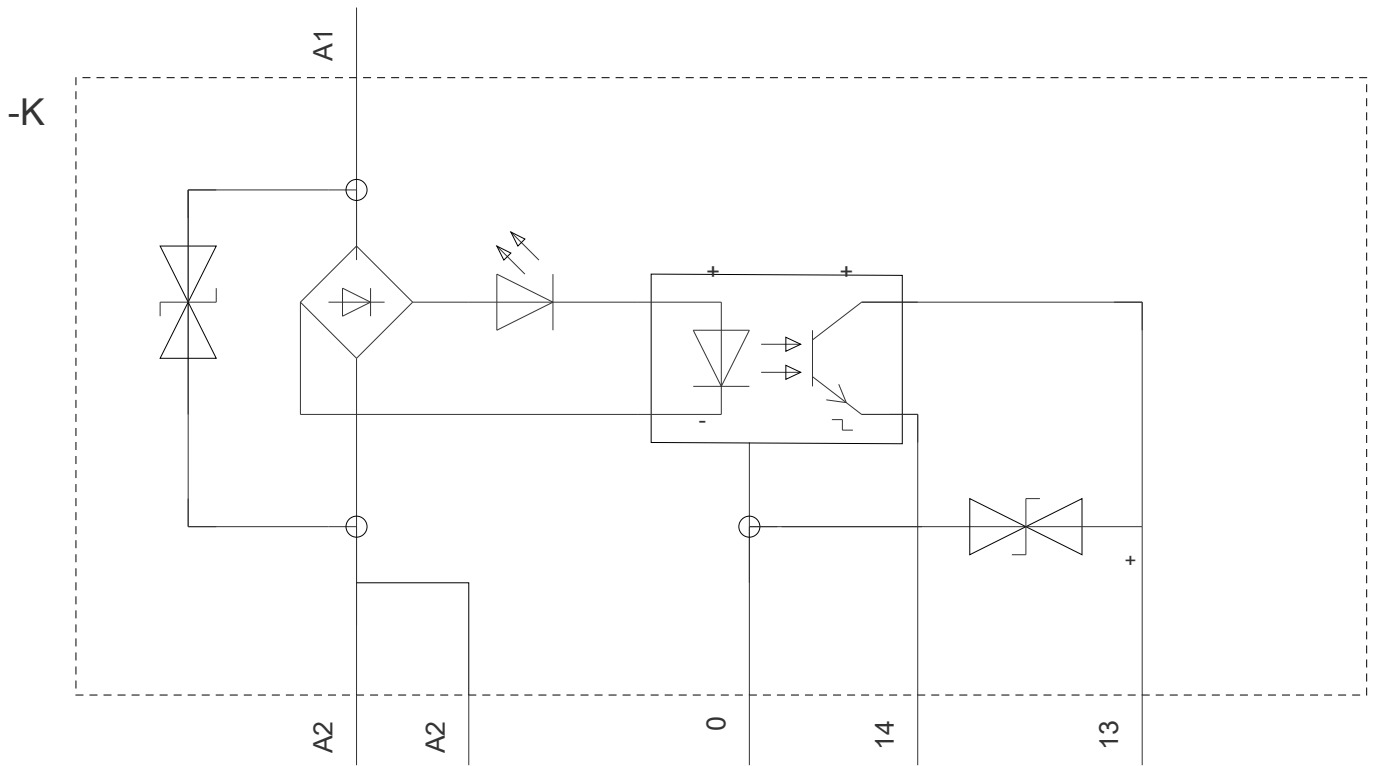
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3055-1SM30&lang=en

Characteristic: Derating

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





last modified:

11/23/2020