SIEMENS

Data sheet   3RQ3052-1SM40

Output coupler Optocoupler 1 NO contact, Transistor Input 24 V DC
Output max. 60 V DC, 2 A Overall width 6.2 mm screw terminal
Thermal current 2A

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
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
Switching frequency	30 Hz
Thermal current	2 A
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K

Control circuit/ Control

Control supply voltage at DC	
• rated value	11 ... 30 V
Operating range factor control supply voltage rated value at DC	
• initial value	1
• Full-scale value	1
Switch-on delay time	
• at DC maximum	0.3 ms
Off-delay time	2 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

Inputs/ Outputs

Property of the output Short-circuit proof	No

Outputs

Ampacity of the semiconductor output at DC	1 mA ... 2 A

Electromagnetic compatibility

EMC emitted interference	
• acc. to IEC 60947-1	ambience A (industrial sector)
EMI immunity	
• acc. to IEC 60947-1	corresponds to degree of severity 3
Conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV
Field-bound parasitic coupling 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	

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• for auxiliary and control current 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 mm²)
• at AWG conductors 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
Mounting type	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
Relative humidity	
• during operation	10 ... 95 %

Certificates/ approvals

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

Declaration of Conformity	Marine / Shipping	other
Miscellaneous	DNV·GL DNVGL.COM/AF	Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3052-1SM40
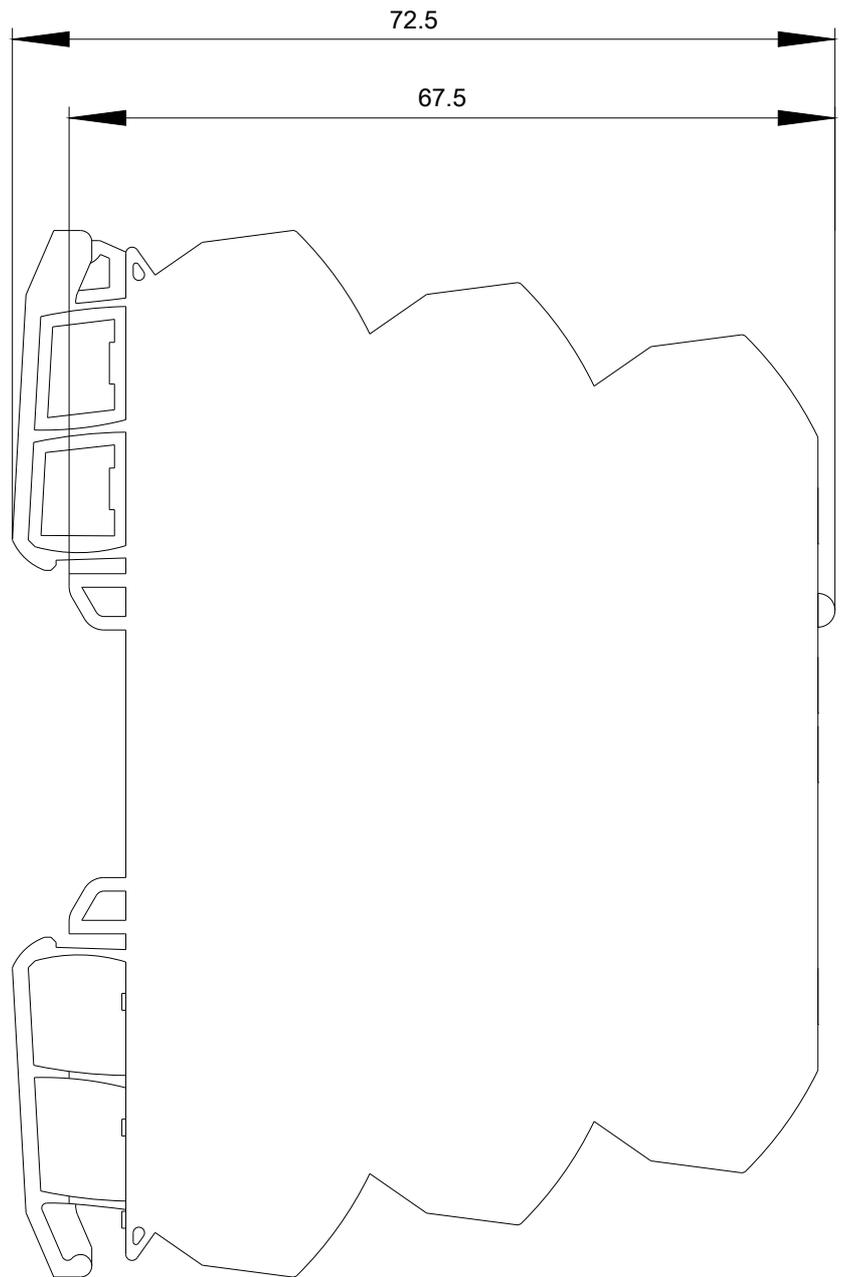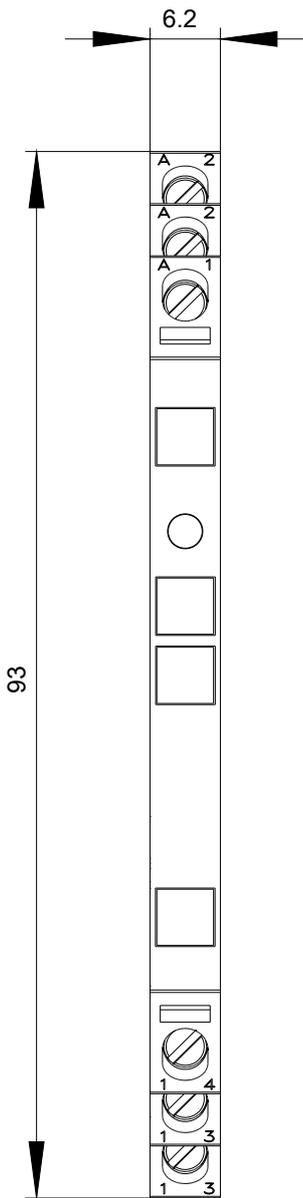
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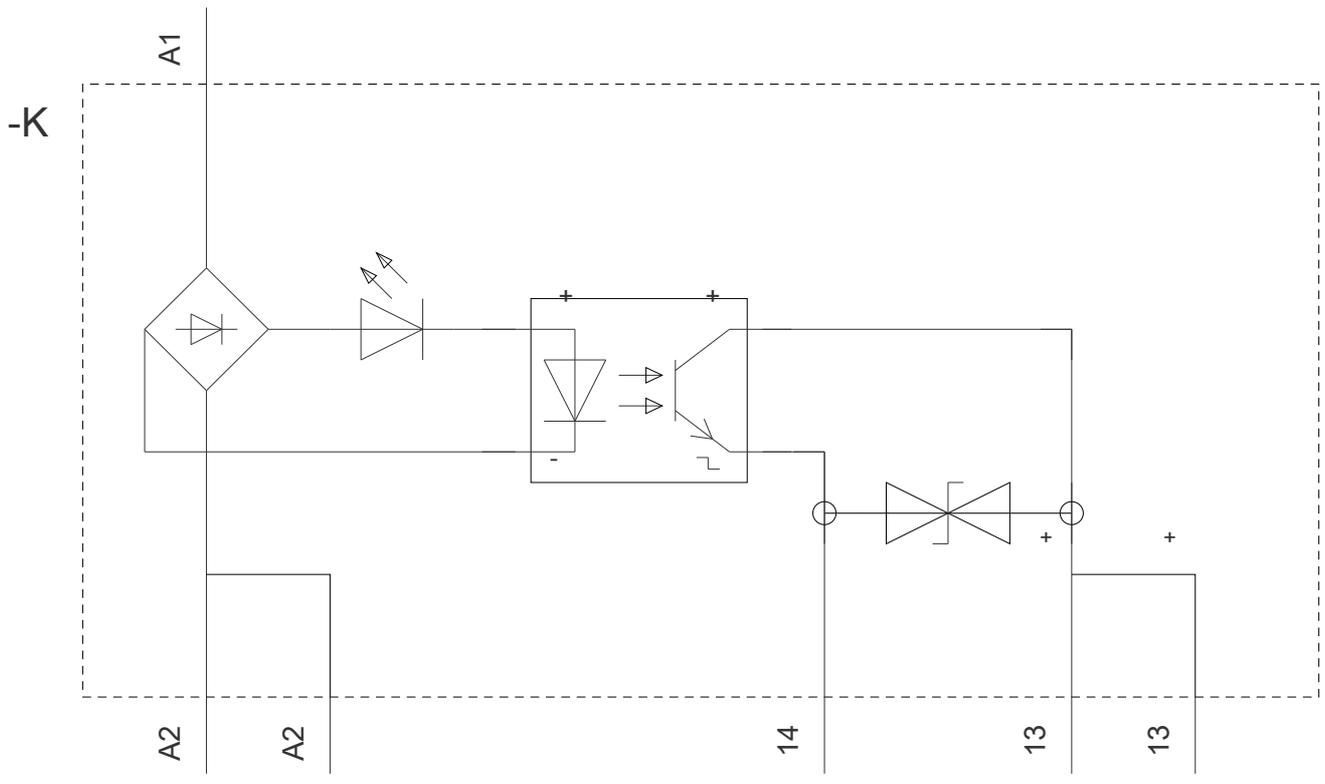http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3052-1SM40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-1SM40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3052-1SM40&lang=en

6.2

72.5

67.5

93

A 2

A 2

A 1

1 4

1 3

1 3

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A1

A2   A2

14   13   13

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