



Output coupler Relay coupler, 1 change-over contact 24 V AC/DC Overall width 6.2 mm screw terminal Thermal current 6A

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|---|---|
| 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 | 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 | |
| • 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 protective separation | |
| • between control and auxiliary circuit | 300 V |
| percental drop-out voltage related to the input voltage | 10 % |
| protection class IP | IP20 |
| flammability class of enclosure material | UL94 V-0 |
| shock resistance | |
| • according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance | |
| • according to IEC 60068-2-6 | 6 ... 150 Hz: 2 g |
| operating frequency maximum | 72 000 1/h |
| switching behavior | monostable |
| mechanical service life (operating cycles) typical | 10 000 000 |
| thermal current | 6 A |
| reference code according to IEC 81346-2 | K |
| Substance Prohibitance (Date) | 03/25/2015 |
| Weight | 0.035 kg |
| Control circuit/ Control | |
| control supply voltage at AC | |
| • at 50 Hz rated value | 24 V |
| • at 60 Hz rated value | 24 V |
| control supply voltage frequency | |
| • 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| control supply voltage at DC rated value | 24 V |
| operating range factor control supply voltage rated value at DC | |

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| <ul style="list-style-type: none"> initial value | 0.8 |
| <ul style="list-style-type: none"> full-scale value | 1.25 |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| <ul style="list-style-type: none"> initial value | 0.8 |
| <ul style="list-style-type: none"> full-scale value | 1.25 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| <ul style="list-style-type: none"> initial value | 0.8 |
| <ul style="list-style-type: none"> full-scale value | 1.25 |
| ON-delay time | |
| <ul style="list-style-type: none"> at AC maximum | 12 ms |
| <ul style="list-style-type: none"> at DC maximum | 12 ms |
| OFF-delay time maximum | 14 ms |
| Mechanical data | |
| product component plug-in socket | No |
| design of the relay operating mechanism | poled |
| 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 | AgSnO ₂ |
| number of CO contacts for auxiliary contacts | 1 |
| operational current of auxiliary contacts at AC-15 | |
| <ul style="list-style-type: none"> at 24 V | 3 A |
| <ul style="list-style-type: none"> at 250 V | 3 A |
| operational current of auxiliary contacts at DC-13 | |
| <ul style="list-style-type: none"> at 24 V | 1 A |
| <ul style="list-style-type: none"> at 125 V | 0.2 A |
| <ul style="list-style-type: none"> at 250 V | 0.1 A |
| contact reliability of auxiliary contacts | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| Main circuit | |
| type of voltage | AC/DC |
| Inputs/ Outputs | |
| property of the output short-circuit proof | No |
| 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 | |
| <ul style="list-style-type: none"> at 24 V | 1 A |
| <ul style="list-style-type: none"> at 125 V | 0.2 A |
| <ul style="list-style-type: none"> at 250 V | 0.1 A |
| Electromagnetic compatibility | |
| EMC emitted interference according to IEC 60947-1 | ambience A (industrial sector) |
| EMC immunity according to IEC 60947-1 | corresponds to degree of severity 3 |
| conducted interference | |
| <ul style="list-style-type: none"> due to burst according to IEC 61000-4-4 | 2 kV |
| <ul style="list-style-type: none"> due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| <ul style="list-style-type: none"> 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 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 | |
| <ul style="list-style-type: none"> at AC maximum | 500 m |
| <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) |

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| <ul style="list-style-type: none"> finely stranded with core end processing for AWG cables solid | 1x (0.25 ... 1.5 mm ²) 1 x (20 ... 14) |
| connectable conductor cross-section | |
| <ul style="list-style-type: none"> solid finely stranded with core end processing | 0.25 ... 2.5 mm ² 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 with screw-type terminals | 0.5 ... 0.6 N·m |

Installation/ mounting/ dimensions

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| 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 for grounded parts <ul style="list-style-type: none"> forwards backwards upwards at the side downwards for live parts <ul style="list-style-type: none"> forwards backwards upwards downwards at the side | 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm |

Ambient conditions

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| 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 during operation | 10 ... 95 % |

Approvals Certificates

General Product Approval



[Confirmation](#)



| | | | | |
|--------------------------|-----|-------------------|-------------------|-------|
| General Product Approval | EMV | Test Certificates | Marine / Shipping | other |
|--------------------------|-----|-------------------|-------------------|-------|



[KC](#)

[Type Test Certificates/Test Report](#)



[Confirmation](#)

Environment

[Environmental Con-](#)

Further information

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)

<http://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3018-1AB00>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-1AB00>

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

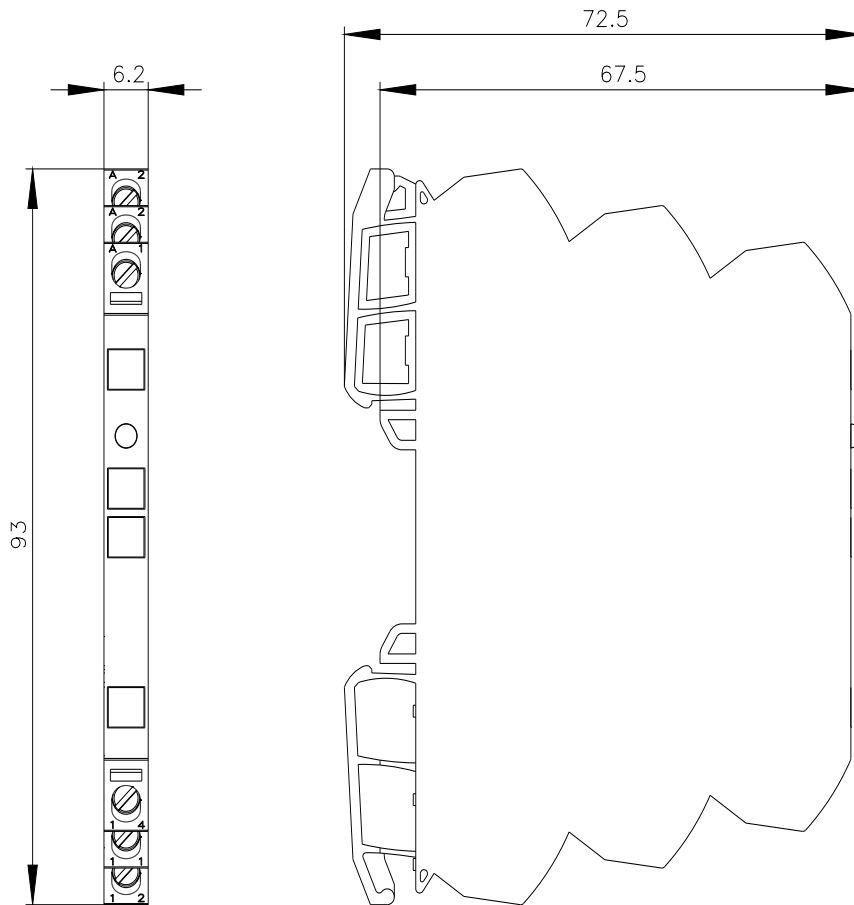
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-1AB00>

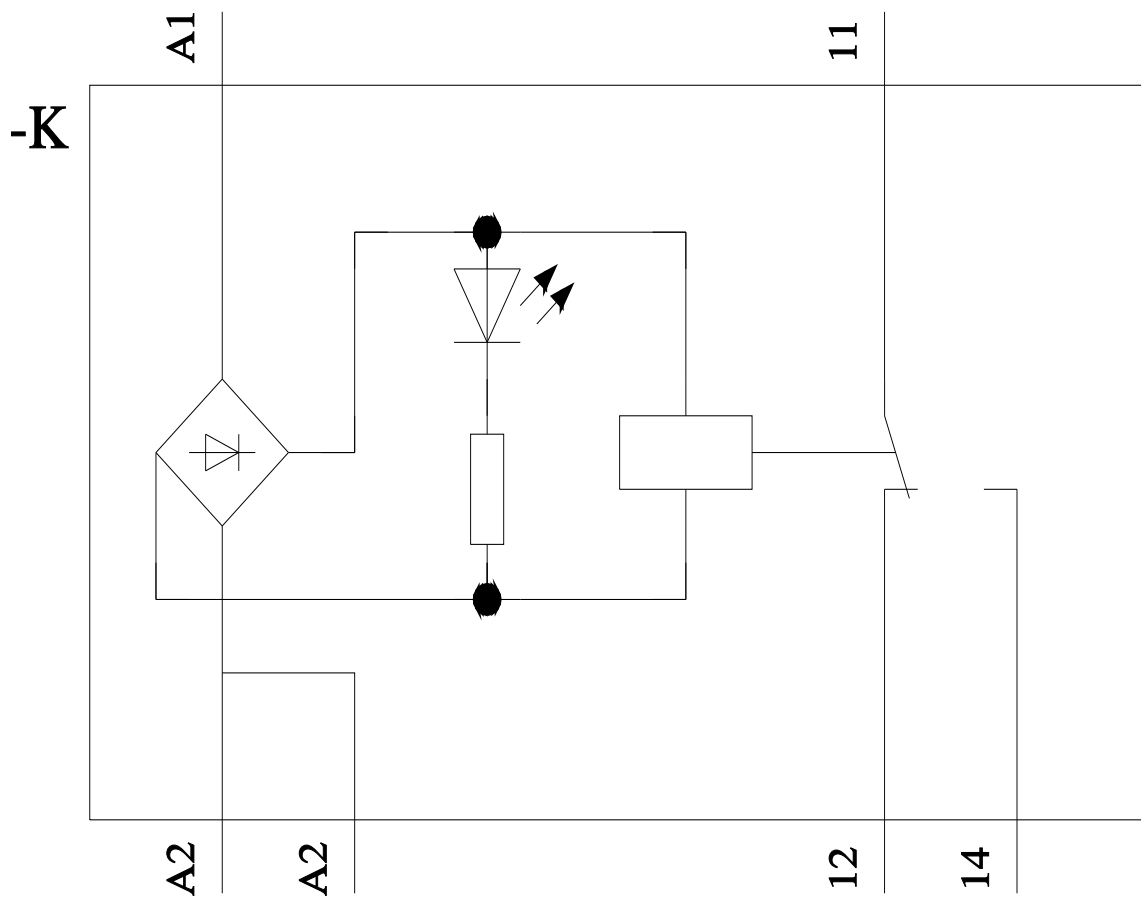
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3018-1AB00&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-1AB00/manual>





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