



output coupler relay coupler, 1 CO, 24 V DC working range 0.7 to 1.25 x US enclosure width 6.2 mm spring-loaded terminal (push-in) thermal current 6 A (see derating characteristic) (with painted PCB)

| | |
|---|---|
| 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 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 | 14.6 % |
| protection class IP | IP20 |
| flammability class of enclosure material | UL94 V-0 |
| shock resistance | |
| • for railway applications according to EN 61373 | Category 1, Class B |
| vibration resistance | |
| • for railway applications according to EN 61373 | Category 1, Class B |
| operating frequency maximum | 72 000 1/h |
| switching behavior | monostable |
| mechanical service life (operating cycles) typical | 10 000 000 |
| thermal current | 6 A; for derating see characteristics |
| reference code according to IEC 81346-2 | K |
| Substance Prohibitance (Date) | 03/25/2015 |
| Control circuit/ Control | |
| control supply voltage at DC | |
| • rated value | 24 V |
| operating range factor control supply voltage rated value at DC | |
| • initial value | 0.7 |
| • full-scale value | 1.25 |
| ON-delay time | |
| • at DC maximum | 5 ms |
| OFF-delay time | 10 ms |
| design of the relay operating mechanism | poled |
| product component plug-in socket | No |

| 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 | |
| • at 24 V | 3 A |
| • at 250 V | 3 A |
| operational current of auxiliary contacts at DC-13 | |
| • at 24 V | 1 A |
| • 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 (17 V, 5 mA) |
| Main circuit | |
| type of voltage | 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 | |
| • at 24 V | 1 A |
| • at 125 V | 0.2 A |
| • 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 | |
| • due to burst according to IEC 61000-4-4 | 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 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 | spring-loaded terminals (push-in) |
| wire length | |
| • at DC maximum | 1 000 m |
| type of connectable conductor cross-sections | |
| • solid | 1x (0.25 ... 2.5 mm ²) |
| • finely stranded with core end processing | 1x (0.25 ... 1.5 mm ²) |
| • finely stranded without core end processing | 1x (0.25 ... 2.5 mm ²) |
| • for AWG cables solid | 1 x (20 ... 14) |
| • for AWG cables stranded | 1x (20 ... 14) |
| connectable conductor cross-section | |
| • solid | 0.25 ... 2.5 mm ² |
| • finely stranded with core end processing | 0.25 ... 1.5 mm ² |
| • finely stranded without core end processing | 0.25 ... 2.5 mm ² |
| AWG number as coded connectable conductor cross section | |
| • solid | 20 ... 14 |
| • stranded | 20 ... 14 |
| 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 0 mm — backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 0 mm • for grounded parts <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 0 mm — at the side 0 mm — downwards 0 mm • 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

| | |
|---|-------------|
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation -40 ... +70 °C • during storage -40 ... +85 °C • during transport -40 ... +85 °C | |
| relative humidity during operation | 10 ... 95 % |

Certificates/ approvals

| | |
|---------------------------------|------------|
| General Product Approval | EMC |
|---------------------------------|------------|



[Confirmation](#)



| | | |
|----------------------------------|--------------------------|--------------|
| Declaration of Conformity | Marine / Shipping | other |
|----------------------------------|--------------------------|--------------|



EG-Konf.



[Confirmation](#)

Further information

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>

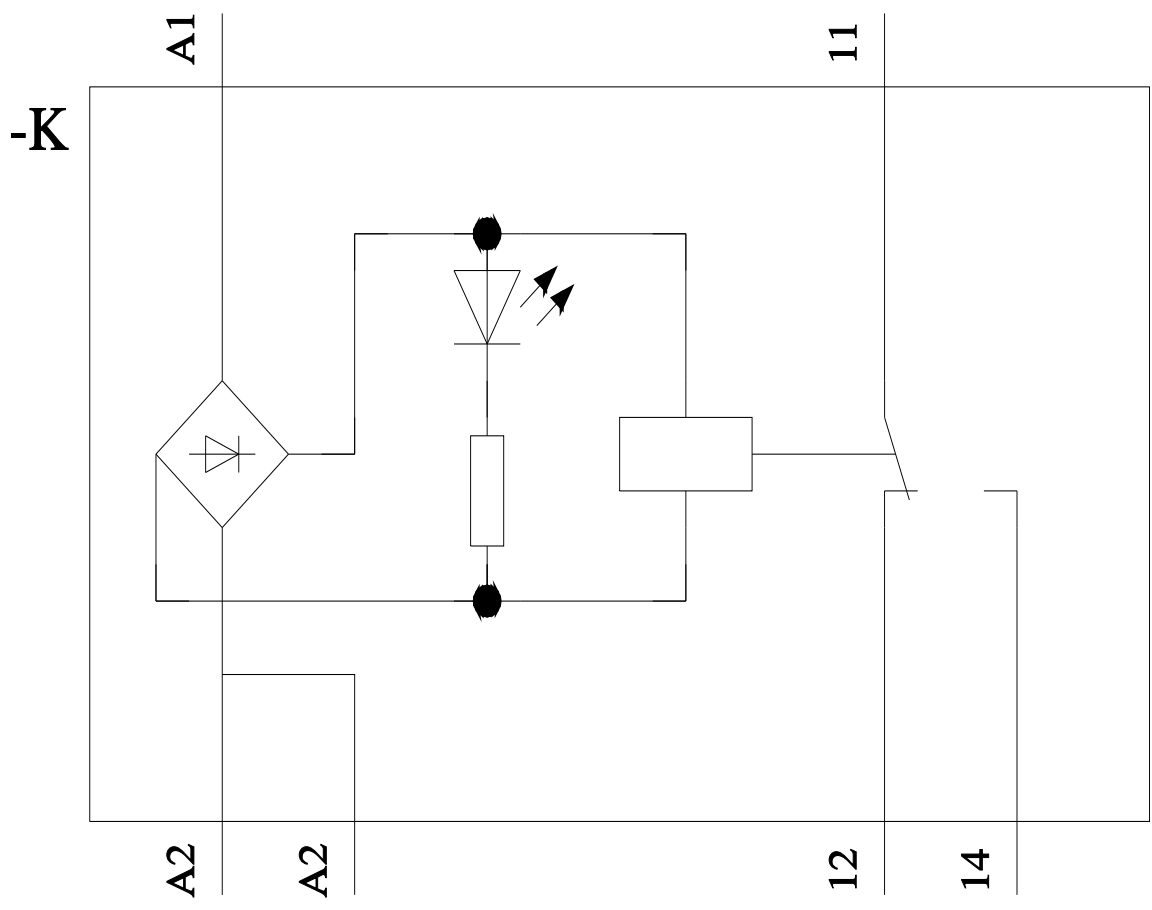
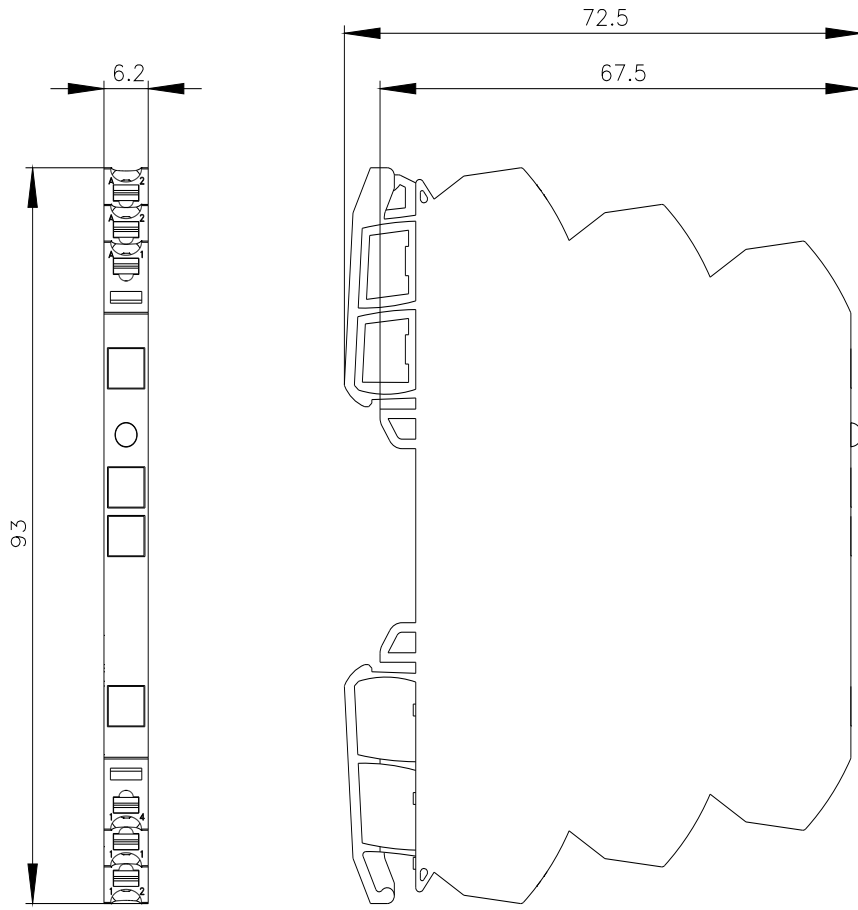
Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3018-2AM08-0AX0>

Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-2AM08-0AX0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-2AM08-0AX0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3018-2AM08-0AX0&lang=en

Characteristic: Derating
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-2AM08-0AX0/manual>



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