



Output coupler with plug-in Relay, 1 CO, hard gold-plated screw terminal
24 V AC/DC Enclosure width 6.2 mm Thermal current 6A

| | |
|--------------------------|--|
| product brand name | SIRIUS |
| product category | SIRIUS 3RQ3 coupling relays in slim design |
| product designation | Coupling relays with plug-in relay |
| design of the product | Output coupling link |
| product type designation | 3RQ3 |

General technical data

| | |
|---|----------------------------------|
| display version LED | Yes |
| product component | Yes |
| <ul style="list-style-type: none"> • relay output • 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 safe isolation | 300 V |
| <ul style="list-style-type: none"> • between control and auxiliary circuit | 10 % |
| percental drop-out voltage related to the input voltage | IP20 |
| protection class IP | UL94 V-0 |
| flammability class of enclosure material | |
| shock resistance | |
| <ul style="list-style-type: none"> • according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance | |
| <ul style="list-style-type: none"> • 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 |

Control circuit/ Control

| | |
|--|-------|
| control supply voltage at AC | 24 V |
| <ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value | 24 V |
| control supply voltage frequency | 50 Hz |
| <ul style="list-style-type: none"> • 1 rated value • 2 rated value | 60 Hz |
| control supply voltage at DC | 24 V |
| <ul style="list-style-type: none"> • rated value | |
| operating range factor control supply voltage rated value at DC | 0.8 |
| <ul style="list-style-type: none"> • initial value • full-scale value | 1.25 |

| | |
|---|-------|
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| • initial value | 0.8 |
| • full-scale value | 1.25 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| • initial value | 0.8 |
| • full-scale value | 1.25 |
| ON-delay time | |
| • at AC maximum | 12 ms |
| • at DC maximum | 12 ms |
| OFF-delay time | 14 ms |
| design of the relay operating mechanism | poled |
| product component plug-in socket | Yes |

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 | AgSnO2 hard gold-plated |
| 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 (5 V, 1 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 | |
| • 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 | screw-type terminals |
| wire length | |
| • at AC maximum | 500 m |
| • 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) |
| • at AWG cables solid | 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 |
| AWG number as coded connectable conductor cross section | 0.25 ... 1.5 mm ² |
| <ul style="list-style-type: none"> • solid | 20 ... 14 |
| tightening torque 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 | 76 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

| | |
|--|--|
| 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 % |

Certificates/ approvals

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



[Confirmation](#)



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



[Type Test Certificates/Test Report](#)



[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=3RQ3118-1AB01>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-1AB01>

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

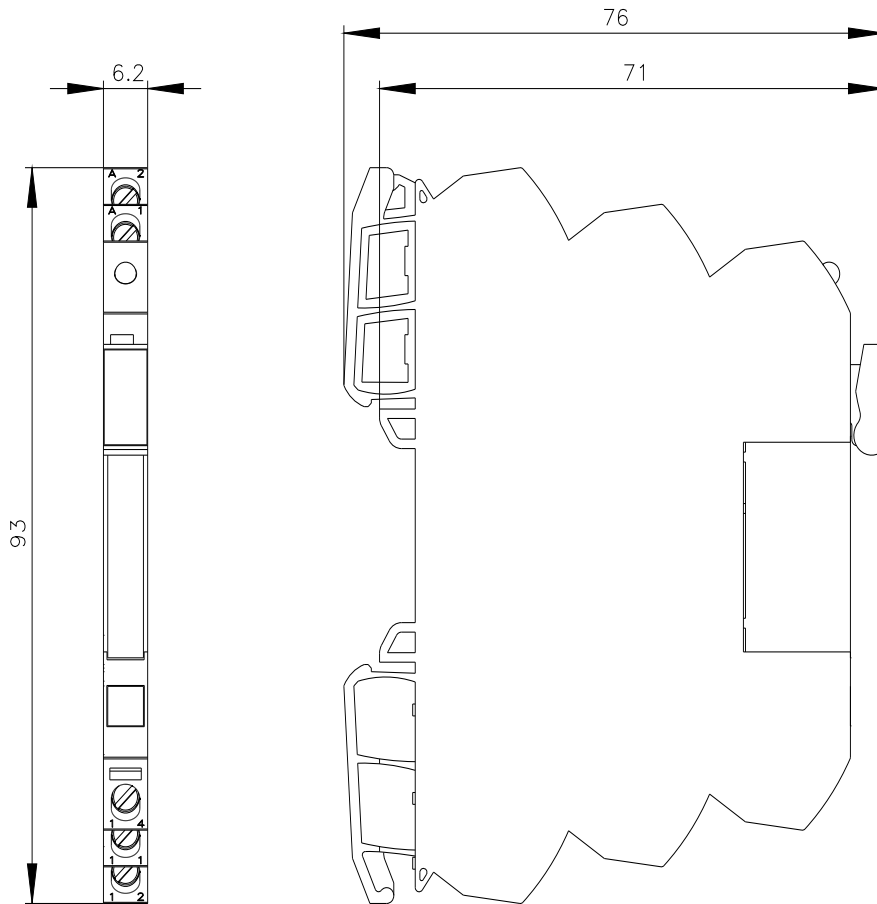
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AB01>

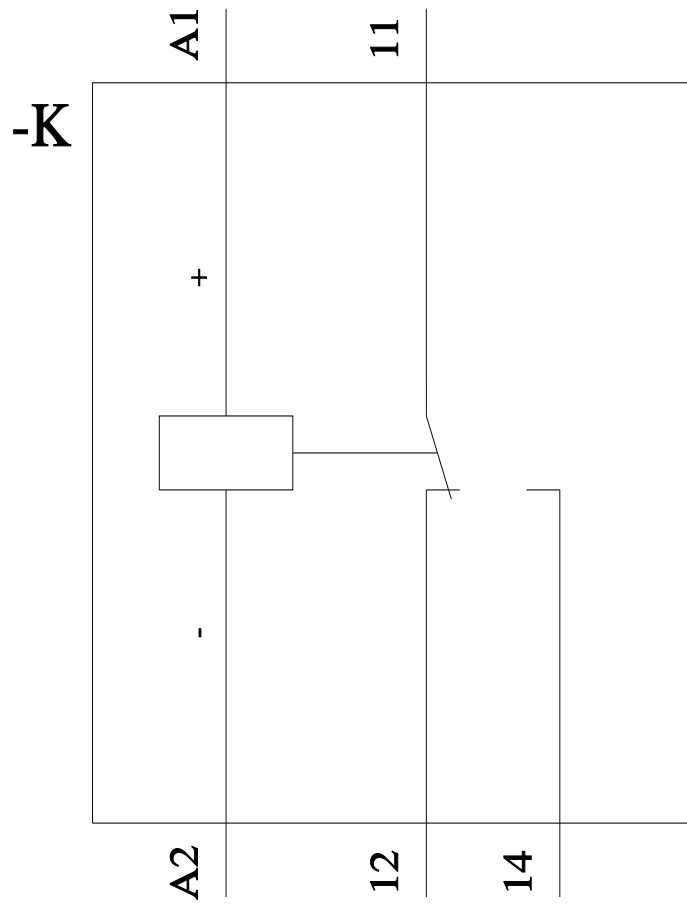
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-1AB01&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AB01/manual>





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