SIEMENS

Data sheet 3RQ3038-2AB01

Input coupler Relay coupler, 1 change-over contact hard gold-plated 24 V AC/DC Spring-type terminal (push-in) Overall 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 relay output (not plug-in) | | |
| Design of the product | Input 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 safe isolation | |
| between control and auxiliary circuit | 300 V |

| Percental drop-out voltage related to the input voltage | 10 % | | |
|--|----------------------------------|--|--|
| Protection class IP | IP20 | | |
| Shock resistance | | | |
| • acc. to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms | | |
| Vibration resistance | | | |
| • acc. to IEC 60068-2-6 | 6 150 Hz: 2 g | | |
| Operating frequency maximum | 72 000 1/h | | |
| Switching behavior | monostable | | |
| Mechanical service life (switching cycles) | | | |
| • typical | 10 000 000 | | |
| Electrical endurance (switching cycles) | | | |
| ● at AC-15 at 230 V typical | 100 000 | | |
| Thermal current | 6 A | | |
| Reference code acc. to DIN EN 81346-2 | К | | |
| 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 | | | |
| • initial value | 0.8 | | |
| 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 | | |
| Switch-on delay time | | | |
| • at AC maximum | 12 ms | | |
| • at DC maximum | 12 ms | | |
| Off-delay time | 14 ms | | |
| Closing delay | | | |
| • at AC | 12 ms | | |

| • at DC | 6 ms | | |
|--|---|--|--|
| Opening delay | | | |
| • at AC | 14 ms | | |
| • at DC | 13 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 | fuse gG: 4 A | | |
| required | | | |
| Auxiliary circuit | | | |
| Type of switching contact | Changeover contact | | |
| Material of switching contacts | AgSnO2-HTV | | |
| Number of CO contacts | | | |
| • for auxiliary contacts | 1 | | |
| Operating current of auxiliary contacts at AC-15 | | | |
| ● at 24 V | 3 A | | |
| ● at 250 V | 3 A | | |
| Operating 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) | | |
| | operations (o v, r min) | | |
| Main circuit | | | |
| Type of voltage | AC/DC | | |
| Inputs/ Outputs | | | |
| Property of the output Short-circuit proof | No | | |
| Outputs | | | |
| 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 | | | |
| • 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 | |

| Product function | | | |
|---|-----------------------------------|--|--|
| • removable terminal | No | | |
| Type of electrical connection | | | |
| for auxiliary and control current circuit | spring-loaded terminals (push-in) | | |
| 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 mm²) | | |
| finely stranded with core end processing | 1x (0.25 1.5 mm²) | | |
| finely stranded without core end processing | 1x (0.25 2.5 mm²) | | |
| at AWG conductors solid | 1 x (20 14) | | |
| at AWG conductors 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 mm² | | |
| AWG number as coded connectable conductor cross | | | |
| section | | | |
| • solid | 20 14 | | |
| • stranded | 20 14 | | |

| 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 | | |

| 1 |
|---|
| 1 |
| 1 |
| 1 |
| 1 |
| |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| |
| 1 |
| 1 |
| 1 |
| 1 |
| |
| |

| 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













| Declaration of Conformity | Marine / Ship- ping | other | |
|---------------------------|------------------------|--------------|--|
| Miscellaneous | OVED | Confirmation | |

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system)

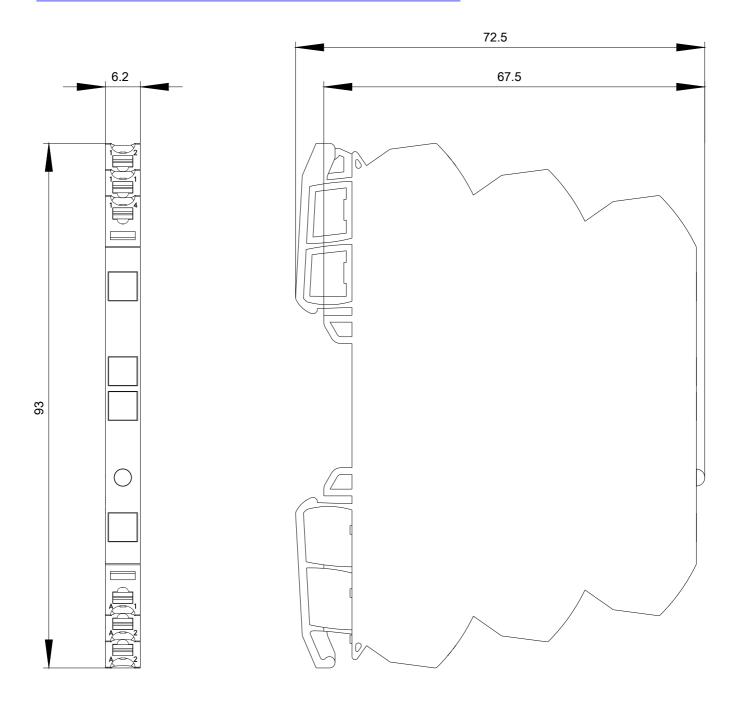
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3038-2AB01

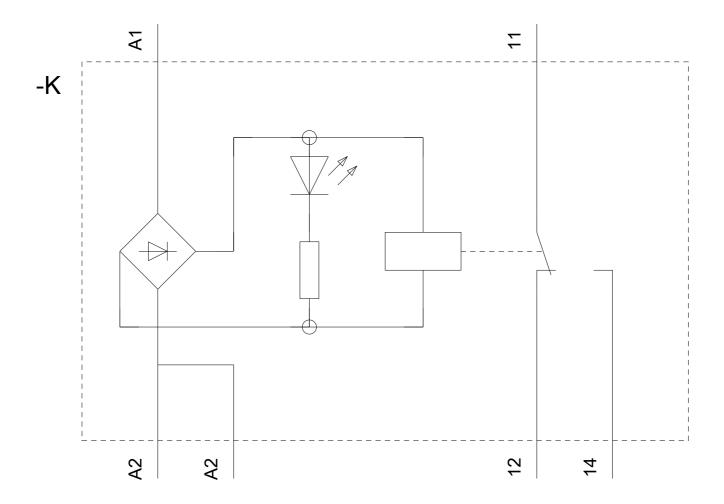
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3038-2AB01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RQ3038-2AB01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3038-2AB01&lang=en





last modified: 04/02/2020