SIEMENS

Product data sheet

3RB3036-1WX1



OVERLOAD RELAY 20...80 A FOR MOTOR PROTECTION SIZE S2,

CLASS 10E STAND-ALONE INSTALLATION MAIN CIRCUIT: STR.-THR. TRANSF. AUX. CIRCUIT: SPRING-T. TERM. MANUAL-AUTOMATIC-RESET

| Conoral tochnical data: |
|-------------------------|

| General technical data: | | | |
|---|----|----------------------------|--|
| product brand name | | SIRIUS | |
| Product designation | | solid-state overload relay | |
| Size of overload relay | | S2 | |
| Number of poles / for main current circuit | | 3 | |
| Product function / removable terminal for auxiliary and control circuit | | Yes | |
| Product function | | | |
| overload protection | | Yes | |
| Phase failure detection | | Yes | |
| Ground fault detection | | No | |
| Product component | | | |
| Auxiliary switch | | Yes | |
| Trip indicator | | Yes | |
| Insulation voltage / with degree of pollution 3 / Rated value | V | 690 | |
| Surge voltage resistance / Rated value | kV | 6 | |
| Protection class IP | | | |
| of the terminal | | IP20 | |
| • on the front | | IP20 | |
| Installation altitude / at height above sea level / maximum | m | 2,000 | |

| Vibration resistance | | 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles |
|--|----|---|
| Ambient temperature | | |
| during transport | °C | -40 +80 |
| during storage | °C | -40 +80 |
| during operation | °C | -25 +60 |
| Relative humidity | | |
| during operation | % | 0 95 |
| EMI immunity / acc. to IEC 60947-1 | | corresponds to degree of severity 3 |
| EMC emitted interference / acc. to IEC 60947-1 | | CISPR 11, environment B (residential area) |
| Electrostatic discharge / acc. to IEC 61000-4-2 | | 6 kV contact discharge / 8 kV air discharge |
| Field-bound parasitic coupling / acc. to IEC 61000-4-3 | | 10 V/m |
| Conducted interference BURST / acc. to IEC 61000-4-4 | | 2 kV (power ports), 1 kV (signal ports) |
| Conducted interference conductor-earth SURGE | | 2 kV (line to ground) |
| Conducted interference conductor-conductor SURGE | | 1 kV (line to line) |
| Conducted interference as high-frequency radiation / acc. to IEC 61000-4-6 | | 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz |
| Type of protection | | II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p] |
| Active power loss / total / typical | W | 0.2 |
| Size of contactor / can be combined / company-specific | | S2 |

Main circuit:

| Operating voltage / Rated value | V | 690 |
|--|---|------|
| Type of voltage / for main current circuit | | AC |
| Operating current | | |
| • at AC-3 / at 400 V / Rated value | А | 80 |
| of the auxiliary contacts | | |
| • at AC-15 | | |
| • at 24 V | А | 4 |
| • at 110 V | А | 4 |
| • at 120 V | А | 4 |
| • at 125 V | А | 4 |
| • at 230 V | А | 3 |
| • at DC-13 | | |
| • at 24 V | А | 2 |
| • at 60 V | А | 0.55 |
| • at 110 V | А | 0.3 |
| • at 125 V | А | 0.3 |
| • at 220 V | А | 0.11 |
| Type of assignment | | 2 |

Control circuit/ Control:

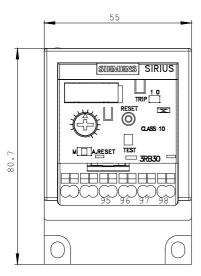
| Type of voltage supply / via input/output link master | | No |
|---|----|--------------------------------------|
| Type of voltage / for auxiliary and control current circuit | | AC/DC |
| Type of Voltage / for advinary and control carrent of car | | |
| Auxiliary circuit: | | |
| Design of the auxiliary switch | | integrated |
| Number of NC contacts / for auxiliary contacts | | 1 |
| Number of NO contacts / for auxiliary contacts | | 1 |
| Number of CO contacts / for auxiliary contacts | | 0 |
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required | | fuse gG: 6 A |
| Protective and monitoring functions: | | |
| Design of the overload circuit breaker | | electronic |
| Trip class | | CLASS 10E |
| Adjustable response value current | | |
| • of the current-dependent overload release | А | 20 80 |
| Safety related data: | | |
| Proportion of dangerous failures | | |
| • with low demand rate / acc. to SN 31920 | % | 35 |
| Installation/ mounting/ dimensions: | | |
| Mounting type | | stand-alone installation |
| mounting position | _ | any |
| Depth | mm | 109 |
| Height | mm | 81 |
| Width | mm | 55 |
| Arrangement of electrical connectors / for main current circuit | | Top and bottom |
| Connections/ terminals: | | |
| Design of the electrical connection | | |
| • for main current circuit | | straight-through transformers |
| for auxiliary and control current circuit | | spring-loaded terminals |
| Type of connectable conductor cross-section | | |
| for auxiliary contacts | | |
| single or multi-stranded | | 1x (0,25 1,5 mm²), 2x (0,25 1,5 mm²) |
| finely stranded | | |
| without core end processing | | 1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²) |
| with core end processing | | 1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²) |
| for AWG conductors / for auxiliary contacts | | 1x (24 16), 2x (24 16) |
| Full-load current (FLA) / for three-phase AC motor | | |
| • at 480 V / Rated value | А | 80 |
| | | |

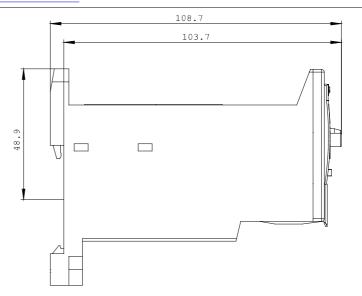
| • at 600 V / Rated value | | А | 80 | | | |
|---|--|---|-------------|--|--|--|
| UL/CSA ratings: | UL/CSA ratings: | | | | | |
| Contact rating / of the auxiliary contacts / acc. to UL | | | B600 / R300 | | | |
| Certificates/ approvals: | | | | | | |
| General Product Approval | Test Certificates | | | | | |
| | <u>Type Test</u> Certificates/Test <u>Report</u> | | | | | |
| Further information: | | | | | | |
| Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs | | | | | | |
| Industry Mall (Online ordering system) http://www.siemens.com/industrymall | | | | | | |
| Cax online generator | | | | | | |

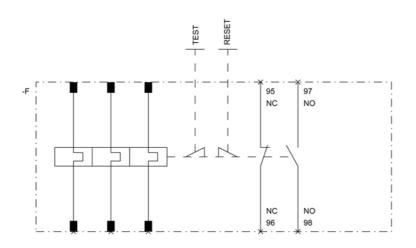
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB3036-1WX1/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3036-1WX1







last change:

Dec 3, 2014