SIEMENS

Data sheet 3RB3036-2WB0



Overload relay 20...80 A Electronic For motor protection Size S2, Class 20E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

| product brand name | SIRIUS |
|--------------------------|----------------------------|
| Product designation | solid-state overload relay |
| Product type designation | 3RB3 |

| 60 |
|--------|
| S2 |
| S2 |
| |
| 4.6 W |
| 1.53 W |
| 690 V |
| |
| 6 kV |
| |
| 300 V |
| |
| 300 V |
| |
| 600 V |
| |
| |

| in networks with grounded star point between main and auxiliary circuit | 690 V |
|---|--|
| protection class IP on the front | IP20 |
| Protection class IP of the terminal | IP00 |
| Shock resistance | 15g / 11 ms |
| • acc. to IEC 60068-2-27 | 15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms |
| Vibration resistance | 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles |
| thermal current | 60 A |
| Recovery time | |
| after overload trip with automatic reset typical | 3 min |
| after overload trip with remote-reset | 0 min |
| after overload trip with manual reset | 0 min |
| Type of protection according to ATEX directive 2014/34/EU | Ex II (2) G [Ex e] [Ex d] [Ex px]; Ex II (2) D [Ex t] [Ex p] |
| Certificate of suitability according to ATEX directive 2014/34/EU | PTB 09 ATEX 3001 |
| Reference code acc. to DIN EN 81346-2 | F |
| Ambient conditions | |
| Installation altitude at height above sea level | |
| • maximum | 2 000 m |
| Ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -40 +80 °C |
| during transport | -40 +80 °C |
| Temperature compensation | -25 +60 °C |
| Relative humidity during operation | 10 95 % |
| Main circuit | |
| Number of poles for main current circuit | 3 |
| adjustable pick-up value current of the current- dependent overload release | 20 80 A |
| Operating voltage | |
| • rated value | 690 V |
| • at AC-3 rated value maximum | 690 V |
| Operating frequency rated value | 50 60 Hz |
| Operating current rated value | 80 A |
| Operating power | |
| • for three-phase motors at 400 V at 50 Hz | 11 37 kW |
| • for AC motors at 500 V at 50 Hz | 15 55 kW |
| • for AC motors at 690 V at 50 Hz | 18.5 75 kW |
| Auxiliary circuit | |
| Design of the auxiliary switch | integrated |
| | |

| 1 |
|-----------------------------|
| for contactor disconnection |
| 1 |
| for message "tripped" |
| |
| 0 |
| 4 A |
| 4 A |
| 4 A |
| 4 A |
| 3 A |
| 2 A |
| 0.55 A |
| 0.3 A |
| 0.3 A |
| 0.11 A |
| |
| CLASS 20E |
| electronic |
| |
| |
| 60 A |
| 60 A |
| B600 / R300 |
| |
| |
| |
| gG: 250 A, RK5: 300 A |
| gG: 250 A |
| fuse gG: 6 A |
| |

| mounting position | any |
|---|------------------------------------|
| Mounting type | Contactor mounting |
| Height | 99 mm |
| Width | 55 mm |
| Depth | 104 mm |
| Connections/ Terminals | |
| Product function | |
| removable terminal for auxiliary and control circuit | Yes |
| Type of electrical connection for main current circuit | screw-type terminals |
| Type of electrical connection for auxiliary and control current circuit | screw-type terminals |
| Arrangement of electrical connectors for main current circuit | Top and bottom |
| Type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid | 1x (1 50 mm²), 2x (1 35 mm²) |
| — stranded | 2x (10 35 mm²), 1x 50 mm² |
| — single or multi-stranded | 1x (1 50 mm²), 2x (1 35 mm²) |
| finely stranded with core end processing | 1x (1 35 mm²), 2x (1 25 mm²) |
| at AWG conductors for main contacts | 2x (18 2), 1x (18 1) |
| Type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| — solid | 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) |
| — single or multi-stranded | 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) |
| — finely stranded with core end processing | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) |
| at AWG conductors for auxiliary contacts | 1x (20 14), 2x (20 14) |
| Tightening torque | |
| • for main contacts with screw-type terminals | 3 4.5 N·m |
| • for auxiliary contacts with screw-type terminals | 0.8 1.2 N·m |
| Design of screwdriver shaft | Diameter 5 to 6 mm |
| Size of the screwdriver tip | Pozidriv PZ 2 |
| Design of the thread of the connection screw | |
| • for main contacts | M6 |
| of the auxiliary and control contacts | M3 |
| Communication/ Protocol | |
| Type of voltage supply via input/output link master | No |

Electromagnetic compatibility

Conducted interference

• due to burst acc. to IEC 61000-4-4

2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3

• due to conductor-earth surge acc. to IEC 61000-4-5

• due to conductor-conductor surge acc. to IEC 61000-4-5

• due to high-frequency radiation acc. to IEC 61000-4-6

Field-bound parasitic coupling acc. to IEC 61000-4-3

Electrostatic discharge acc. to IEC 61000-4-2

2 kV (line to earth) corresponds to degree of severity 3

1 kV (line to line) corresponds to degree of severity 3

10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz

10 V/m

6 kV contact discharge / 8 kV air discharge

Display

Display version

• for switching status

Slide switch

Certificates/ approvals

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





LRS

Marine / Shipping

other









Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3036-2WB0}$

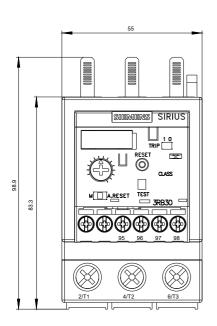
Cax online generator

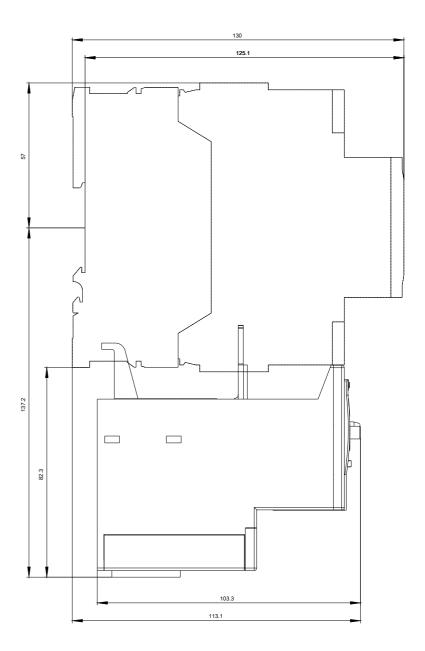
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RB3036-2WB0}\\$

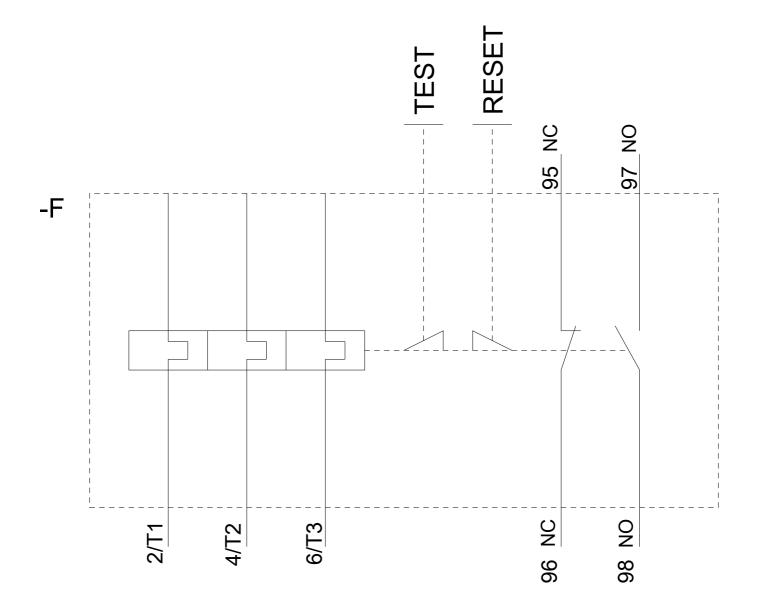
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-2WB0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WB0/char







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