SIEMENS

Data sheet

3RB2066-1MC2

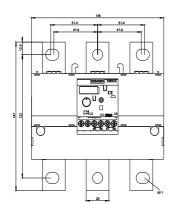


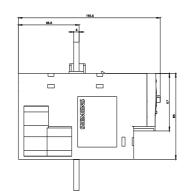
Overload relay 160...630 A for motor protection Size S10/S12, Class 10E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset

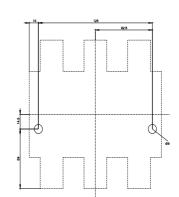
| product brand name | SIRIUS |
|--|--|
| product designation | solid-state overload relay |
| product type designation | 3RB2 |
| General technical data | |
| size of overload relay | S10, S12 |
| size of contactor can be combined company-specific | S10, S12 |
| insulation voltage with degree of pollution 3 at AC rated value | 1 000 V |
| surge voltage resistance rated value | 8 kV |
| maximum permissible voltage for protective separation | |
| in networks with ungrounded star point between auxiliary and auxiliary circuit | 300 V |
| in networks with grounded star point between auxiliary and auxiliary circuit | 300 V |
| in networks with ungrounded star point between main and auxiliary circuit | 600 V |
| in networks with grounded star point between main and auxiliary circuit | 690 V |
| shock resistance | 15g / 11 ms |
| according 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 | 630 A |
| recovery time after overload trip | |
| with automatic reset typical | 3 min |
| with remote-reset | 0 min |
| with manual reset | 0 min |
| reference code according to IEC 81346-2 | F |
| Substance Prohibitance (Date) | 07/01/2006 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 |
| Weight | 1.827 kg |
| 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 current response value current of the current- dependent overload release | 160 630 A |

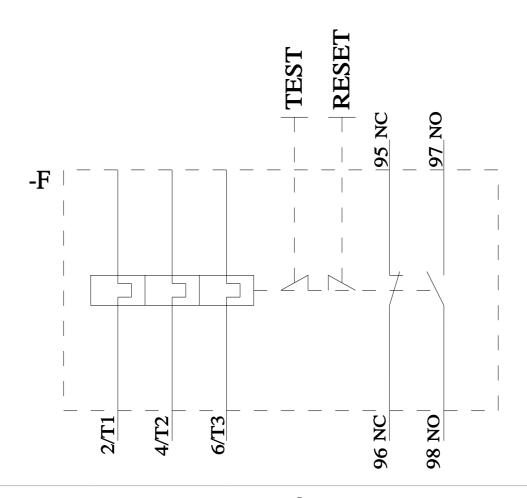
| operating voltage | 4 000 1/ |
|---|---|
| rated value | 1 000 V |
| at AC-3e rated value maximum | 1 000 V |
| operating frequency rated value | 50 60 Hz |
| operational current rated value | 630 A |
| operational current at AC-3e at 400 V rated value | 630 A |
| operating power | 00 000 100 |
| • for 3-phase motors at 400 V at 50 Hz | 90 355 kW |
| • for AC motors at 500 V at 50 Hz | 132 400 kW |
| for AC motors at 690 V at 50 Hz | 160 560 kW |
| Auxiliary circuit | intervente d |
| design of the auxiliary switch | integrated |
| number of NC contacts for auxiliary contacts | 1 for contactor disconnection |
| note number of NO contracts for surjliant contracts | for contactor disconnection |
| number of NO contacts for auxiliary contacts note | |
| number of CO contacts for auxiliary contacts | for message "tripped" 0 |
| operational current of auxiliary contacts at AC-15 | 0 |
| • at 24 V | 4 A |
| • at 24 V • at 110 V | 4 A 4 A |
| • at 120 V | 4 A 4 A |
| • at 125 V | 4 A |
| • at 230 V | 3 A |
| operational current of auxiliary contacts at DC-13 | 37 |
| • at 24 V | 2 A |
| • at 24 V | 0.55 A |
| • at 110 V | 0.3 A |
| • at 125 V | 0.3 A |
| • at 220 V | 0.11 A |
| Protective and monitoring functions | |
| trip class | CLASS 10E |
| design of the overload release | electronic |
| | |
| UL/CSA ratings | |
| UL/CSA ratings full-load current (FLA) for 3-phase AC motor | |
| | 630 A |
| full-load current (FLA) for 3-phase AC motor | 630 A 630 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value | 630 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL | 630 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection | 630 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link | 630 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit | 630 A B600 / R300 |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required | 630 A B600 / R300 gG: 800 A, Class L: 1600 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A |
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| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm |
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| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for main current circuit • for auxiliary and control circuit | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection screw-type terminals |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection |
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| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for auxiliary contacts | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 120 mm 155 mm Yes busbar connection screw-type terminals Top and bottom |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sect | 630 A B600 / R300 gG: 800 A, Class L: 1600 A gG: 630 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection screw-type terminals |

| finely strande for AWG cables for | | Sing | 1x (0.5 2.5 mm ²), 2x (0.5 2x (20 14) | | |
|---|--|--|---|---|--|
| tightening torque | Carriery Condoto | | | | |
| | vith screw type terminal | e | 20 22 Num | | |
| | vith screw-type terminal | | 20 22 N·m 0.8 1.2 N·m | | |
| | ts with screw-type term | inais | 0.8 1.2 NºIII | | |
| design of the thread of t | ine connection screw | | 140 | | |
| for main contacts | | | M10 | | |
| of the auxiliary and | control contacts | | M3 | | |
| Electrical Safety | | | | | |
| protection class IP on the front according to IEC 60529 | | | IP00; IP20 with box terminal/cover | | |
| touch protection on the front according to IEC 60529 | | finger-safe, for vertical contact from the front with box terminal/cover | | | |
| Communication/ Protocol | | | | | |
| type of voltage supply via input/output link master | | No | | | |
| Electromagnetic compatil | bility | | | | |
| conducted interference | | | | | |
| due to burst accord | ling to IEC 61000-4-4 | | 2 kV (power ports), 1 kV (signa | al ports) corresponds to d | legree of severity 3 |
| due to conductor-e | arth surge according to | IEC 61000-4-5 | 2 kV (line to earth) correspond | Is to degree of severity 3 | |
| • due to conductor-co 61000-4-5 | onductor surge accordi | ng to IEC | 1 kV (line to line) corresponds | | |
| due to high-frequer 4-6 | ncy radiation according | to IEC 61000- | 10 V in frequency range 0.15 t | o 80 MHz, modulation 80 | % AM with 1 kHz |
| field-based interference | according to IEC 610 | 00-4-3 | 10 V/m | | |
| electrostatic discharge | according to IEC 6100 | 0-4-2 | 6 kV contact discharge / 8 kV a | air discharge | |
| Display | - | | | | |
| display version for switchi | ing status | | Slide switch | | |
| Approvals Certificates | | | | | |
| General Product Appro | | | | | |
| | <u>Confirmation</u> | CE EG-Konf. | UK CA | (ĥľ) | EHL |
| CCC | | For use in haza | | UL) u | Marine / Shipping |
| EMV | KC | | ard- | Type Test Certific- ates/Test Report | Marine / Shipping |
| EMV EMV KCM | | For use in haza | ard- Test Certificates Special Test Certific- | 11001001001 | Marine / Shipping |
| RCM | | For use in haza | ard- Test Certificates Special Test Certific- ate | 11001001001 | ABS |
| RCM | | For use in haza | ard- Test Certificates Special Test Certific- ate | 11001001001 | ABS |
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