SIEMENS

Data sheet 3RV2011-1HA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 5.5...8A, N-RELEASE 104A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

| product brand name | SIRIUS |
|---------------------|----------------------|
| Product designation | 3RV2 circuit breaker |

| General technical data: | | |
|--|----|------------------|
| Active power loss total typical | W | 7 |
| Insulation voltage | | |
| with degree of pollution 3 Rated value | V | 690 |
| Shock resistance | | |
| • acc. to IEC 60068-2-27 | | 25g / 11 ms |
| Surge voltage resistance Rated value | kV | 6 |
| Mechanical service life (switching cycles) | | |
| of the main contacts typical | | 100 000 |
| of the auxiliary contacts typical | | 100 000 |
| Electrical endurance (switching cycles) | | |
| • typical | | 100 000 |
| Temperature compensation | °C | -20 + 60 |
| Size of contactor can be combined company-specific | | S2 |
| Protection class IP | | |
| • on the front | | IP20 |
| of the terminal | | IP20 |
| Type of protection | | Increased safety |
| Equipment marking | | |
| • acc. to DIN EN 81346-2 | | Q |
| | | |

| Main circuit: | | |
|--|---|--|
| Number of poles for main current circuit | 3 | |

| Α | 5.5 8 |
|-----|------------------------------------|
| | |
| | |
| V | 690 |
| V | 690 |
| Hz | 50 60 |
| Α | 8 |
| | |
| | |
| Α | 8 |
| | |
| | |
| W | 1 500 |
| W | 3 000 |
| W | 4 000 |
| W | 5 500 |
| | |
| 1/h | 15 |
| | |
| | |
| | 1 |
| | |
| | 1 |
| | |
| | 0 |
| | Yes |
| | transverse |
| | |
| Α | 2 |
| Α | 0.5 |
| Α | 0.5 |
| Α | 0.5 |
| | |
| Α | 1 |
| Α | 0.15 |
| | |
| | CLASS 10 |
| | thermal |
| | |
| | |
| kA | 100 |
| | V V Hz A A W W W W A A A A A A A |

| • at 500 V Rated value | kA | 42 |
|---|--------------|--|
| ● at 690 V Rated value | kA | 4 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| with AC at 240 V Rated value | kA | 100 |
| with AC at 400 V Rated value | kA | 100 |
| with AC at 500 V Rated value | kA | 42 |
| with AC at 690 V Rated value | kA | 6 |
| Breaking capacity short-circuit current (Icn) | | |
| • with 1 current path for DC at 150 V Rated value | kA | 10 |
| with 2 current paths in series for DC at 300 V Rated value | kA | 10 |
| with 3 current paths in series for DC at 450 V Rated value | kA | 10 |
| Response value current of the instantaneous short- | A | 104 |
| circuit release | * * | |
| 111 /004 / | | |
| UL/CSA ratings: Full-load current (FLA) for three-phase AC motor | | |
| at 480 V Rated value | Α | 8 |
| at 600 V Rated value | A | 8 |
| yielded mechanical performance [hp] | | |
| • for single-phase AC motor at 110/120 V Rated | metric | 0.333 |
| value | hp | |
| for single-phase AC motor at 230 V Rated value | metric hp | 1 |
| • for three-phase AC motor at 200/208 V Rated | metric | 2 |
| value | hp | |
| for three-phase AC motor at 220/230 V Rated value | metric hp | 2 |
| for three-phase AC motor at 460/480 V Rated value | metric hp | 5 |
| • for three-phase AC motor at 575/600 V Rated | metric | 5 |
| value | hp | |
| Contact rating of the auxiliary contacts acc. to UL | | C300 / R300 |
| Short-circuit: | | |
| Product function Short circuit protection | | Yes |
| Design of the short-circuit trip | | magnetic |
| Design of the fuse link | | |
| for short-circuit protection of the auxiliary switch required | | Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) |
| Design of the fuse link for IT network for short-circuit | | |
| protection of the main circuit | | |
| ● at 400 V | | gL/gG 50 A |
| ● at 500 V | | gL/gG 40 A |

| mounting position | | any |
|--|----|--|
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| Height | mm | 106 |
| Width | mm | 45 |
| Depth | mm | 96 |
| Required spacing | | |
| with side-by-side mounting | | |
| — forwards | mm | 0 |
| — Backwards | mm | 0 |
| — upwards | mm | 50 |
| — downwards | mm | 50 |
| — at the side | mm | 0 |
| • for grounded parts | | |
| — forwards | mm | 0 |
| — Backwards | mm | 0 |
| — upwards | mm | 50 |
| — at the side | mm | 30 |
| — downwards | mm | 50 |
| • for live parts | | |
| — forwards | mm | 0 |
| — Backwards | mm | 0 |
| — upwards | mm | 50 |
| — downwards | mm | 50 |
| — at the side | mm | 30 |

| Connections/ Terminals: | | |
|--|--|-------------------------|
| Type of electrical connection | | |
| • for main current circuit | | spring-loaded terminals |
| for auxiliary and control current circuit | | spring-loaded terminals |
| Arrangement of electrical connectors for main current circuit | | Top and bottom |
| Product function | | |
| removable terminal for auxiliary and control circuit | | No |
| Type of connectable conductor cross-section | | |
| • for main contacts | | |
| single or multi-stranded | | 2x (0,5 4 mm²) |
| finely stranded with core end processing | | 2x (0.5 2.5 mm²) |
| finely stranded without core end processing | | 2x (0.5 2.5 mm²) |

| for AWG conductors for main contacts | | 2x (20 12) |
|--|-----|--------------------|
| • for auxiliary contacts | | |
| single or multi-stranded | | 2x (0,5 2,5 mm²) |
| — finely stranded with core end processing | | 2x (0.5 1.5 mm²) |
| finely stranded without core end processing | | 2x (0.5 1.5 mm²) |
| for AWG conductors for auxiliary contacts | | 2x (20 14) |
| Design of screwdriver shaft | | Diameter 5 to 6 mm |
| Safety related data: | | |
| B10 value with high demand rate acc. to SN 31920 | | 50 000 |
| Proportion of dangerous failures | | |
| with low demand rate acc. to SN 31920 | % | 40 |
| with high demand rate acc. to SN 31920 | % | 40 |
| Failure rate [FIT] with low demand rate acc. to SN 31920 | FIT | 50 |
| T1 value for proof test interval or service life acc. to IEC 61508 | У | 10 |
| Protection against electrical shock | | finger-safe |
| Mechanical data: | | |
| Size of the circuit-breaker | | S00 |
| Ambient conditions: | | |
| Installation altitude at height above sea level maximum | m | 2 000 |
| Ambient temperature | | |
| during operation | °C | -20 +60 |
| during storage | °C | -50 + 80 |
| during transport | °C | -50 + 80 |
| Relative humidity during operation | % | 10 95 |
| Display: | | |
| Display version | | |
| • for switching status | | Handle |
| | | |

Certificates/ approvals:

General Product Approval

Declaration of Conformity







KTL

Shipping Approval





Test Certificates

Type Test
Certificates/Test
Report

Declaration of the Compliance with the order

Special Test Certificate







other

Shipping Approval



GL



LRS







Confirmation

other

Environmental Confirmations



other

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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV20111HA25}$

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

http://support.automation.siemens.com/WW/view/en/3RV20111HA25/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20111HA25&lang=en



