SIEMENS

Data sheet

3RV2411-1AA20



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE1.1...1.6 A, N-RELEASE 33A SPRING-L. CONNECTION, STANDARD SW. CAPACITY

| product brand name | | SIRIUS | |
|---|----|----------------------|--|
| Product designation | | 3RV2 circuit breaker | |
| General technical data: | | | |
| Active power loss total typical | W | 6 | |
| 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 | |
| Protection class IP | | | |
| • on the front | | IP20 | |
| • of the terminal | | IP20 | |
| Equipment marking | | | |
| • acc. to DIN EN 81346-2 | | Q | |
| Main circuit: | | | |
| Number of poles for main current circuit | | 3 | |

| Number of poles for main current circuit | | 3 |
|---|---|---------|
| Adjustable response value current of the current- dependent overload release | A | 1.1 1.6 |
| Operating voltage | | |

| Rated value | V | 690 |
|--|-----|----------|
| at AC-3 Rated value maximum | V | 690 |
| Operating frequency Rated value | Hz | 50 60 |
| Operating current Rated value | A | 1.6 |
| Operating current | | |
| • at AC-3 | | |
| — at 400 V Rated value | A | 1.6 |
| Operating power | | |
| • at AC-3 | | |
| — at 230 V Rated value | W | 250 |
| — at 400 V Rated value | W | 550 |
| — at 500 V Rated value | W | 750 |
| — at 690 V Rated value | W | 1 100 |
| Operating frequency | | |
| ● at AC-3 maximum | 1/h | 15 |
| Auxiliary circuit: | | |
| Number of NC contacts | | |
| for auxiliary contacts | | 0 |
| Number of NO contacts | | |
| for auxiliary contacts | | 0 |
| Number of CO contacts | | |
| for auxiliary contacts | | 0 |
| Product expansion Auxiliary switch | | Yes |
| Protective and monitoring functions: | | |
| Trip class | | CLASS 10 |
| Design of the overload circuit breaker | | thermal |
| Operational short-circuit current breaking capacity (Ics) with AC | | |
| • at 240 V Rated value | kA | 100 |
| ● at 400 V Rated value | kA | 100 |
| • at 500 V Rated value | kA | 100 |
| ● at 690 V Rated value | kA | 100 |
| 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 | 100 |
| • with AC at 690 V Rated value | kA | 100 |
| 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- circuit release | A | 33 |
| JL/CSA ratings: | | |
| Full-load current (FLA) for three-phase AC motor | | |
| • at 480 V Rated value | А | 1.6 |
| • at 600 V Rated value | А | 1.6 |
| yielded mechanical performance [hp] | | |
| for single-phase AC motor at 230 V Rated value | metric hp | 0.1 |
| for three-phase AC motor at 460/480 V Rated value | metric hp | 0.75 |
| for three-phase AC motor at 575/600 V Rated value | metric hp | 0.75 |
| Short-circuit: | | |
| Product function Short circuit protection | | Yes |
| Design of the short-circuit trip | - | magnetic |
| Design of the fuse link for IT network for short-circuit protection of the main circuit | _ | |
| • at 500 V | | gL/gG 20 A |
| ● at 690 V | | gL/gG 16 A |
| nstallation/ mounting/ dimensions: | | |
| 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 | | |
| | mm | 0 |
| for grounded parts | | 0 0 |
| for grounded parts forwards | mm | |
| for grounded parts forwards Backwards | mm mm | 0 |

| • 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 |
| 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) |
| Design of screwdriver shaft | Diameter 5 to 6 mm |

| | 50 000 | | |
|---------------------|---------------|--|--|
| | | | |
| % | 40 | | |
| % | 40 | | |
| FIT | 50 | | |
| У | 10 | | |
| | finger-safe | | |
| Mechanical data: | | | |
| | S00 | | |
| Ambient conditions: | | | |
| ~ | 2,000 | | |
| m | 2 000 | | |
| | 2 000 | | |
| | 2 000 | | |
| °C | -20 +60 | | |
| | | | |
| | % FIT y | | |

| Relative humidity du | ring operation | % | 10 95 | | |
|---|----------------|-------------------|--------------------------------|--|-----------------------------|
| Display: | | | | | |
| Display version | | | | | |
| for switching st | atus | | Handle | | |
| Certificates/ approva | | | | | |
| General Product | Approval | | Declaration of Conformity | Test Certificates | |
| | (SA) | EHC | EG-Konf. | Declaration of the Compliance with the order | Special Test Certificate |
| Test Certificates | Shipping App | roval | | | |
| <u>Type Test</u> <u>Certificates/Test</u> <u>Report</u> | ABS | BUREAU VERITAS | ÚŠ DINV DNV | GL | Lloyd's Register LRS |
| Shipping Approv | al | | other | | |
| PRS | RINA | RMRS | Environmental Confirmations | Confirmation | VDE |
| other | | | | | |
| other | | | | | |

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

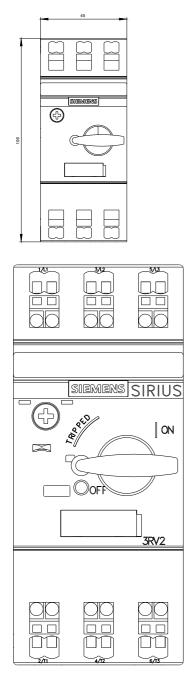
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

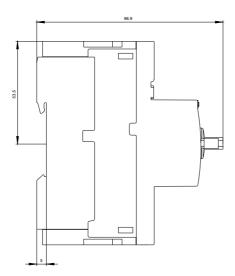
Cax online generator

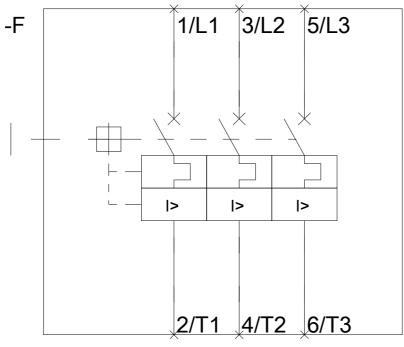
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV24111AA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV24111AA20/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=3RV24111AA20&lang=en







last modified:

11.03.2015