SIEMENS

Product data sheet

3RV2011-4AA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 11...16A, N-RELEASE 208A, SCREW CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

| General technical data: | | |
|--|----|----------------------|
| Product brand name | | SIRIUS |
| product designation | | 3RV2 circuit breaker |
| Size of the circuit-breaker | | S00 |
| Trip class | | CLASS 10 |
| Protection class IP / on the front | | IP20 |
| Degree of pollution | | 3 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature | | |
| during storage | °C | -50 80 |
| during operating | °C | -20 60 |
| during transport | °C | -50 80 |
| Resistance against shock | | 25g / 11 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Insulation voltage / rated value | V | 690 |
| Active power loss / total / typical | W | 8.3 |
| Item designation | | |
| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | F |
| according to DIN EN 61346-2 | | F |

| Mechanical operating cycles as operating time | | |
|--|-----|-----------------|
| of the main contacts / typical | | 100,000 |
| of the auxiliary contacts / typical | | 100,000 |
| Design of the auxiliary switch | - | transverse |
| Type of the driving mechanism / motor drive | - | No |
| Design of the operating mechanism | - | selector switch |
| Product function | - | |
| overload protection | | Yes |
| phase disturbance recognition | | Yes |
| Product component | - | |
| auxiliary switch | | Yes |
| undervoltage release mechanism | | No |
| • trip indicator | | No |
| Product extension / optional / motor drive | | No |
| Main circuit: | | |
| Number of poles / for main current circuit | | 3 |
| Operating voltage / at AC-3 / rated value / maximum | V | 690 |
| Operating current / at AC-3 / at 400 V / rated value | A | 15.5 |
| Service power / at AC-3 | - | |
| • at 400 V / rated value | W | 7,500 |
| • at 500 V / rated value | W | 7,500 |
| • at 690 V / rated value | W | 11,000 |
| Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum | 1/h | 15 |
| Arrangement of electrical connectors / for main current circuit | - | Top and bottom |
| Adjustable response current | - | |
| of the non-delayed short-circuit release | А | 208 208 |
| of the current-dependent overload release | А | 11 16 |
| Service power / at AC-3 / at 230 V / rated value | W | 4,000 |
| Continuous current / rated value | А | 16 |
| Auxiliary circuit: | | |
| Product extension / auxiliary switch | | Yes |
| Number of NC contacts / for auxiliary contacts / instantaneous switching | | 1 |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 1 |
| Number of change-over switches / for auxiliary contacts | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-12 / maximum | А | 2.5 |
| | | |

| • at AC-15 | | |
|------------|---|------|
| • at 24 V | А | 2 |
| • at 230 V | А | 0.5 |
| • at DC-13 | | |
| • maximum | А | 1 |
| • at 24 V | А | 1 |
| • at 60 V | А | 0.15 |

0

Inputs/ Outputs:

Number of digital inputs

| Short-circuit: | | | |
|---|---|--|--|
| Breaking capacity limit short-circuit current (Icu) | | | |
| • at 400 V / rated value | А | 55,000 | |
| • at 500 V / rated value | А | 10,000 | |
| • at 690 V / rated value | А | 4,000 | |
| 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 Ik < 400 A) | |
| Design of the overcurrent release and short-circuit release | | thermomagnetic | |

| Installation/mounting/dimensions: | | | | |
|---|----|--|--|--|
| Built in orientation | | any | | |
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 | | |
| Width | mm | 45 | | |
| Height | mm | 97 | | |
| Depth | mm | 91 | | |
| Distance, to be maintained, to the ranks assembly | | | | |
| • forwards | mm | 0 | | |
| backwards | mm | 0 | | |
| • upwards | mm | 50 | | |
| downwards | mm | 50 | | |
| • sidewards | mm | 0 | | |
| Distance, to be maintained, to earthed part | | | | |
| • forwards | mm | 0 | | |
| backwards | mm | 0 | | |
| • upwards | mm | 50 | | |
| • sidewards | mm | 30 | | |
| downwards | mm | 50 | | |
| Distance, to be maintained, conductive elements | | | | |
| • forwards | mm | 0 | | |
| backwards | mm | 0 | | |

| • upwards | mm | 50 | |
|---|----|-------------------------------------|--|
| downwards | mm | 50 | |
| • sidewards | mm | 30 | |
| Connections: | | | |
| | _ | | |
| Product function | | | |
| removable terminal for main circuit | | No | |
| removable terminal for auxiliary and control circuit | | No | |
| Design of the electrical connection | | | |
| for main current circuit | | screw-type terminals | |
| for auxiliary and control current circuit | | screw-type terminals | |
| Type of the connectable conductor cross-section | | | |
| for main contacts | | | |
| • solid | | 2x (0.75 2.5 mm2), 2x (1 4 mm2) | |
| • stranded | | 2x (0.75 2.5 mm²), 2x 4 mm² | |
| finely stranded | | | |
| with conductor end processing | | 2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2) | |
| for AWG conductors / for main contacts | | 2x (18 14), 2x 12 | |
| for auxiliary contacts | | | |
| • solid | | 2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2) | |
| finely stranded | | | |
| with conductor end processing | | 2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2) | |
| for AWG conductors / for auxiliary contacts | | 2x (20 16), 2x (18 14) | |
| Certificates/approvals: | | | |
| Verification of suitability | | CE / UL / CSA | |
| • für Staubexplosionsschutz für Zone 21/22 | | no | |
| • for gas explosion protection for zone 1/2 | | no | |
| | | | |

| General Product Approval | | | For use in hazardo | ous locations | |
|---|-----------------------|----------------------------|--------------------|----------------------------------|------|
| coc | (SA) | ROSTEST | | <u>DEKRA EXAM,</u> <u>DMT</u> | |
| Test Certificates | | | | | |
| Manufacturer | other | | | | |
| Shipping Approva | ı | | | | |
| ABS | GL | Lloyd's Register Lrs | PRS | RINA | RMRS |
| other | | | | | |
| <u>Manufacturer</u> | <u>other</u> | UDE VDE | | | |
| UL/CSA ratings | | | | _ | |
| yielded mechanical | performance (hp) | | | | |
| for single-phase | squirrel cage motors | | | | |
| • at 110/120 V | / rated value | | hp | 1 | |
| • at 230 V / rated value | | hp | 2 | | |
| for three-phase squirrel cage motors | | | | | |
| • at 200/208 V | / rated value | | hp | 3 | |
| • at 220/230 V | / rated value | | hp | 5 | |
| • at 460/480 V | / rated value | | hp | 10 | |
| Operating current (| FLA) / for three-phas | se squirrel cage motors | | | |
| • at 480 V / rated v | value | | А | 14 | |
| Contact rating designation / for auxiliary contacts / according to UL | | - | C300 / R300 | | |
| Safety: | | | | | |
| B10 value / with hig | h demand rate | | | | |
| according to SN 31920 | | | 50,000 | | |
| T1 value / for proof test interval or service life | | | | | |
| according to IEC 61508 | | а | 10 | | |
| Failure rate (FIT value) / with low demand rate | | | | | |
| according to SN 31920 | | | FIT | 50 | |
| | | | | | |

Further information:

Proportion of dangerous failures

Protection against electrical shock

 \bullet with low demand rate / according to SN 31920

• with high demand rate / according to SN 31920

%

%

40

40

finger-safe

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Industry Mall (Online ordering system)

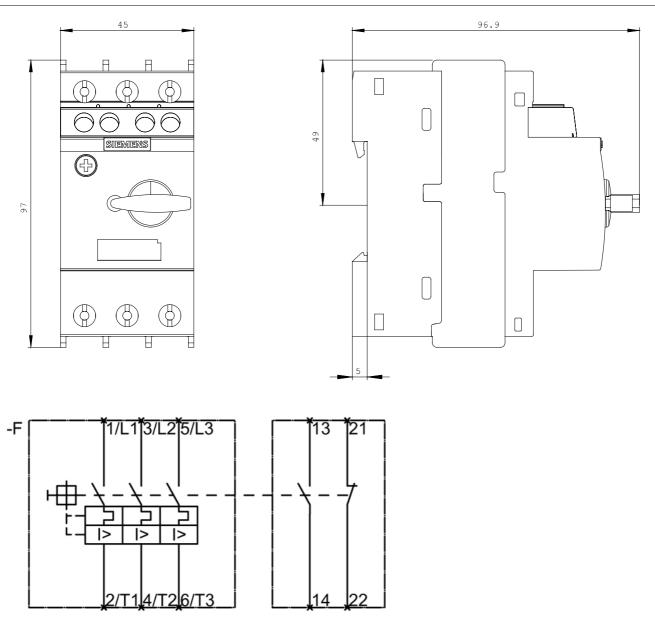
http://www.siemens.com/industrial-controls/mall

CAx-Online-Generator

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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-4AA15/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-4AA15



last change:

