SIEMENS

Data sheet

3RV2011-0CA20



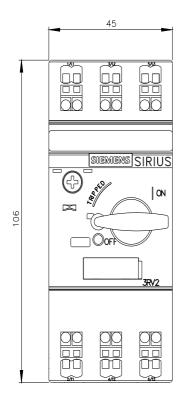
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.18...0.25 A N-release 3.3 A Spring-type terminal Standard switching capacity

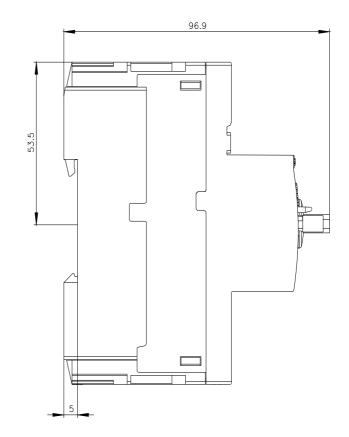
| product brand nameSIRIUSproduct designationCircuit breakerdesign of the productFor motor protectionproduct type designation3RV2General technical datasize of the circuit-breakersize of the circuit-breakerS00size of contactor can be combined company-specificS00, S0product extension auxiliary switchYespower loss [W] for rated value of the current5.5 W• at AC in hot operating state5.5 W• at AC in hot operating state per pole1.8 Winsulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance rated value6 kVshock resistance according to IEC 60068-2-2725g / 11 msmechanical service life (operating cycles)100 000 | |
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| surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 6 kV | |
| shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 25g / 11 ms | |
| mechanical service life (operating cycles) | |
| | |
| a of the main contacts twicel | |
| of the main contacts typical 100 000 | |
| of auxiliary contacts typical 100 000 | |
| electrical endurance (operating cycles) typical 100 000 | |
| type of protection according to ATEX directive 2014/34/EU Ex II (2) GD | |
| certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 | |
| reference code according to IEC 81346-2 Q | |
| Substance Prohibitance (Date) 10/01/2009 | |
| Ambient conditions | |
| installation altitude at height above sea level maximum 2 000 m | |
| ambient temperature | |
| • during operation -20 +60 °C | |
| • during storage -50 +80 °C | |
| • during transport -50 +80 °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- 0.18 0.25 A dependent overload release 0.18 0.25 A | |
| operating voltage | |
| • rated value 20 690 V | |
| • at AC-3 rated value maximum 690 V | |
| • at AC-3e rated value maximum 690 V | |
| operating frequency rated value 50 60 Hz | |
| operational current rated value 0.25 A | |
| operational current | |

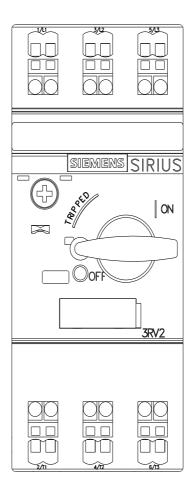
| at AC-3 at 400 V rated value | 0.25 A |
|---|--|
| • at AC-3e at 400 V rated value | 0.25 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 0 kW |
| — at 400 V rated value | 0.06 kW |
| — at 500 V rated value | 0.1 kW |
| — at 690 V rated value | 0.1 kW |
| • at AC-3e | |
| — at 230 V rated value | 0 kW |
| — at 400 V rated value | 0.06 kW |
| — at 500 V rated value | 0.1 kW |
| — at 690 V rated value | 0.1 kW |
| operating frequency | |
| • at AC-3 maximum | 15 1/h |
| ● at AC-3e maximum | 15 1/h |
| 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 |
| Protective and monitoring functions | |
| product function | |
| ground fault detection | No |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| maximum short-circuit current breaking capacity (Icu) | unciniai |
| at AC at 240 V rated value | 100 kA |
| at AC at 240 V rated value at AC at 400 V rated value | 100 kA |
| at AC at 500 V rated value | |
| | 100 kA |
| at AC at 690 V rated value | 100 kA |
| operating short-circuit current breaking capacity (Ics) at AC | |
| • at 240 V rated value | 100 kA |
| • at 400 V rated value | 100 kA |
| • at 500 V rated value | 100 kA |
| at 690 V rated value | 100 kA |
| response value current of instantaneous short-circuit trip unit | 3.3 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 0.25 A |
| ● at 600 V rated value | 0.25 A |
| Short-circuit protection | |
| product function short circuit protection | Yes |
| design of the short-circuit trip | magnetic |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 106 mm |
| width | 45 mm |
| depth | 97 mm |
| required spacing | |
| with side-by-side mounting at the side | 0 mm |
| for grounded parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| • for live parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| - at the side | 9 11111 |

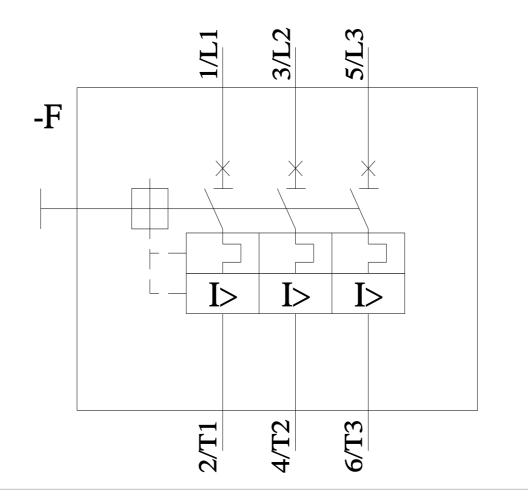
| 30 mm 30 mm | |
|--|---|
| 30 mm | |
| | |
| 0 mm | |
| 9 mm | |
| 20 mm | |
| | |
| | |
| 9 mm | |
| 50 | |
| | |
| | |
| | |
| | |
| 0 mm | |
| | |
| | |
| | |
| 0 mm | |
| 30 mm | |
| 0 mm | |
| | |
| | |
| spring-loaded terminals | |
| Top and bottom | |
| - | |
| | |
| $2x (0.5 - 4 \text{ mm}^2)$ | |
| | |
| | |
| | |
| | |
| | |
| 5,0 x 0,5 mm | |
| | |
| 5 000 | |
| 5 000 | |
| | |
| | |
| 50 % | |
| | |
| 50 FIT | |
| 10 a | |
| IP20 | |
| finger-safe, for vertical contact from the front | |
| Handle | |
| | |
| | For use in hazard- |
| | ous locations |
| кс — — – | |
| – cor | <u>(</u> {x}) |
| CUT CUT | <u> </u> |
| | ATEX |
| | |
| | |
| Test Certificates | Marine / Shipping |
| | 30 mm 0 mm spring-loaded terminals Top and bottom 2x (0,5 4 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle KC KC |

| IECEx | CE EG-Konf. | UK CA | <u>Type Test Certific-</u> ates/Test Report | <u>Special Test Certific-</u> <u>ate</u> | ABS |
|--|--|---|--|---|--------------------------|
| Marine / Shipping | | | | | other |
| BUREAU VERITAS | | Lloyd's Register uts | PRS | RINA | <u>Confirmation</u> |
| other | Railway | | | | |
| | Vibration and Shock | <u>Confirmation</u> | | | |
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| https://support.industry | <u>y.siemens.com/cs/ww/en/ps/</u> cs (e.g. electrical endurand | /3RV2011-0CA20/char | cy) | | |
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