SIEMENS

Data sheet 3RV2011-0HA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

| product brand name | SIRIUS |
|-------------------------------------------------------------------------------------|----------------------|
| product designation | Circuit breaker |
| design of the product | For motor protection |
| product type designation | 3RV2 |
| General technical data | |
| size of the circuit-breaker | S00 |
| size of contactor can be combined company-specific | S00, S0 |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 7.25 W |
| at AC in hot operating state per pole | 2.4 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | 25g / 11 ms |
| mechanical service life (switching cycles) | |
| of the main contacts typical | 100 000 |
| of auxiliary contacts typical | 100 000 |
| electrical endurance (switching 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-dependent overload release | 0.55 0.8 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 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| operating frequency rated value | 0.8 A |
| operational current rated value operational current | U.O A |
| • | 0.0 4 |
| • at AC-3 at 400 V rated value | 0.8 A |
| at AC-3e at 400 V rated value | 0.8 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 0.1 kW |
| — at 400 V rated value | 0.18 kW |
| — at 500 V rated value | 0.3 kW |
| — at 690 V rated value | 0.4 kW |
| • at AC-3e | |
| — at 230 V rated value | 0.1 kW |
| — at 400 V rated value | 0.18 kW |
| — at 500 V rated value | 0.3 kW |
| — at 690 V rated value | 0.4 kW |
| operating frequency | |
| • at AC-3 maximum | 15 1/h |
| • at AC-3e maximum | 15 1/h |
| Auxiliary circuit | |
| design of the auxiliary switch | transverse |
| number of NC contacts for auxiliary contacts | 1 |
| number of NO contacts for auxiliary contacts | 1 |
| number of CO contacts for auxiliary contacts | 0 |
| operational current of auxiliary contacts at AC-15 | 0 |
| • at 24 V | 2 A |
| | |
| • at 120 V | 0.5 A |
| • at 125 V | 0.5 A |
| • at 230 V | 0.5 A |
| operational current of auxiliary contacts at DC-13 | |
| • at 24 V | 1 A |
| ● at 60 V | 0.15 A |
| Protective and monitoring functions | |
| product function | |
| ground fault detection | No |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| breaking capacity maximum short-circuit current (Icu) | |
| at AC at 240 V rated value | 100 kA |
| • 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 |
| breaking capacity operating short-circuit current (Ics) | |
| at AC | |
| • at 240 V rated value | 100 kA |
| • at 400 V rated value | 100 kA |
| 4 = 0 0 14 4 4 4 4 | 100 kA |
| at 500 V rated value | |
| at 500 V rated valueat 690 V rated value | 100 kA |
| • at 690 V rated value | 100 kA 10 A |
| | |
| at 690 V rated value response value current of instantaneous short-circuit trip | |
| at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings | |
| at 690 V rated value response value current of instantaneous short-circuit trip unit | |
| at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value | 10 A 0.8 A |
| at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value | 10 A 0.8 A 0.8 A |
| at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings 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 | 10 A 0.8 A |
| at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings 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 | 0.8 A 0.8 A C300 / R300 |
| at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings 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 product function short circuit protection | 10 A 0.8 A 0.8 A C300 / R300 |
| at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings 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 | 0.8 A 0.8 A C300 / R300 |

| 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 690 V | gL/gG 6 A |
| stallation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm standard mounting rail |
| | according to DIN EN 60715 |
| height | 106 mm |
| width | 45 mm |
| depth | 97 mm |
| required spacing | |
| 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 |
| | V IIIII |
| for grounded parts at 500 V | 20 mm |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for live parts at 500 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for grounded parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| • for live parts at 690 V | • ····· |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — upwards — backwards | 0 mm |
| | |
| — at the side | 30 mm |
| — forwards | 0 mm |
| onnections/ Terminals | |
| type of electrical connection | |
| for main current circuit | spring-loaded terminals |
| for auxiliary and control circuit | spring-loaded terminals |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| type of connectable conductor cross-sections | |
| for main contacts | |
| — solid or 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) |
| at AWG cables for main contacts | 2x (20 12) |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 2.5 mm²) |
| — finely stranded with core end processing | 2x (0.5 1.5 mm²) |
| — finely stranded with core end processing — finely stranded without core end processing | 2x (0.5 1.5 mm²) |
| | 2x (0.5 1.5 mm) 2x (20 14) |
| | (A 1/1) [9] |
| at AWG cables for auxiliary contacts design of screwdriver shaft | Diameter 3 mm |

| Safety related data | |
|-------------------------------------------------------------------------|--------------------------------------------------|
| B10 value | |
| with high demand rate according to SN 31920 | 5 000 |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 50 % |
| with high demand rate according to SN 31920 | 50 % |
| failure rate [FIT] | |
| with low demand rate according to SN 31920 | 50 FIT |
| T1 value for proof test interval or service life according to IEC 61508 | 10 y |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| display version for switching status | Handle |
| | |

Certificates/ approvals

General Product Approval

For use in hazardous locations



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



IECEx



Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation



Confirmation

Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0HA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0HA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA25

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0HA25&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA25/char

Further characteristics (e.g. electrical endurance, switching frequency)

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