SIEMENS

Data sheet 3RT2526-1AF00



2NO+2NC CONTACTOR, AC3: 11KW AC 110V 50HZ 4-POLE, 2NO+2NC, SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.

| product brand name | SIRIUS |
|---------------------|----------------|
| Product designation | 3RT2 contactor |

| General technical data: | |
|--|----------------------------|
| Product expansion function module for | No |
| communication | |
| Insulation voltage | |
| Rated value | 690 V |
| maximum permissible voltage for safe isolation | 400 V |
| between coil and main contacts acc. to EN 60947-1 | |
| Degree of pollution | 3 |
| Shock resistance | |
| at rectangular impulse | |
| — with AC | 8,3g / 5 ms, 5,3g / 10 ms |
| • with sine pulse | |
| — with AC | 13,5g / 5 ms, 8,3g / 10 ms |
| Surge voltage resistance Rated value | 6 kV |
| Mechanical service life (switching cycles) | |
| of the contactor typical | 10 000 000 |
| of the contactor with added electronics- | 5 000 000 |
| compatible auxiliary switch block typical | |
| of the contactor with added auxiliary switch | 10 000 000 |
| block typical | |
| Protection class IP | |
| • on the front | IP20 |
| Equipment marking | |

| • acc. to DIN EN 61346-2 | Q |
|--------------------------|---|
| • acc. to DIN EN 81346-2 | Q |

| Aain circuit: | |
|---|---------|
| Number of poles for main current circuit | 4 |
| Number of NC contacts for main contacts | 2 |
| Number of NO contacts for main contacts | 2 |
| Operating current | |
| • at AC-1 | |
| up to 690 V at ambient temperature 40 °C Rated value | 40 A |
| — up to 690 V at ambient temperature 60 °C Rated value | 35 A |
| • at AC-2 at AC-3 at 400 V | |
| per NO contact Rated value | 25 A |
| per NC contact Rated value | 25 A |
| Operating current with 1 current path | |
| • at DC-1 | |
| — at 24 V Rated value | 35 A |
| — at 110 V Rated value | 4.5 A |
| — at 220 V Rated value | 1 A |
| — at 440 V Rated value | 0.4 A |
| • at DC-3 at DC-5 | |
| — at 24 V per NC contact Rated value | 20 A |
| — at 24 V per NO contact Rated value | 20 A |
| at 110 V per NC contact Rated value | 1.25 A |
| — at 110 V per NO contact Rated value | 2.5 A |
| — at 220 V per NC contact Rated value | 0.5 A |
| — at 220 V per NO contact Rated value | 1 A |
| — at 440 V per NC contact Rated value | 0.045 A |
| — at 440 V per NO contact Rated value | 0.09 A |
| Operating current with 2 current paths in series | |
| • at DC-1 | |
| — at 24 V Rated value | 35 A |
| — at 110 V Rated value | 35 A |
| — at 220 V Rated value | 5 A |
| — at 440 V Rated value | 1 A |
| • at DC-3 at DC-5 | |
| — at 110 V per NC contact Rated value | 7.5 A |
| — at 110 V per NO contact Rated value | 15 A |
| — at 220 V per NC contact Rated value | 1.5 A |
| — at 220 V per NO contact Rated value | 3 A |

| — at 24 V per NC contact Rated value | 35 A |
|---|-----------|
| — at 24 V per NO contact Rated value | 35 A |
| — at 440 V per NC contact Rated value | 0.135 A |
| — at 440 V per NO contact Rated value | 0.27 A |
| Operating power | |
| • at AC-2 at AC-3 | |
| — at 230 V per NC contact Rated value | 5.5 kW |
| — at 230 V per NO contact Rated value | 5.5 kW |
| — at 400 V per NC contact Rated value | 11 kW |
| — at 400 V per NO contact Rated value | 11 kW |
| Active power loss at AC-3 at 400 V for rated value of | 1.6 W |
| the operating current per conductor | |
| Operating frequency | |
| • at AC-1 maximum | 1 000 1/h |
| No-load switching frequency | |
| • with AC | 5 000 1/h |
| • for DC | 1 500 1/h |
| Control circuit/ Control: | |
| Type of voltage of the control supply voltage | AC |
| Control supply voltage with AC | |
| • at 50 Hz Rated value | 110 V |
| Operating range factor control supply voltage rated | |
| value of the magnet coil with AC | |
| ● at 50 Hz | 0.8 1.1 |
| ● at 60 Hz | 0.85 1.1 |
| Closing delay | |
| • with AC | 8 40 ms |
| Opening delay | |
| • with AC | 4 16 ms |
| Arcing time | 10 10 ms |
| Residual current of the electronics for control with | |
| signal <0> | 0.007 A |
| • with AC at 230 V maximum permissible | 0.001 A |
| Auxiliary circuit: | |
| Number of NC contacts | |
| for auxiliary contacts | |
| — instantaneous contact | 1 |
| Number of NO contacts | |
| for auxiliary contacts | |
| — instantaneous contact | 1 |
| Product expansion Auxiliary switch | Yes |

Operating current at AC-12 maximum

10 A

| Operating current at AC-15 | |
|---|---|
| • at 230 V Rated value | 10 A |
| • at 400 V Rated value | 3 A |
| • at 690 V Rated value | 1 A |
| Operating current at DC-12 | |
| ● at 60 V Rated value | 6 A |
| ● at 110 V Rated value | 3 A |
| • at 125 V Rated value | 2 A |
| ● at 220 V Rated value | 1 A |
| ● at 600 V Rated value | 0.15 A |
| Operating current at DC-13 | |
| ● at 24 V Rated value | 10 A |
| • at 60 V Rated value | 2 A |
| ● at 110 V Rated value | 1 A |
| • at 125 V Rated value | 0.9 A |
| • at 220 V Rated value | 0.3 A |
| • at 600 V Rated value | 0.1 A |
| Contact reliability of the auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

| UL/CSA ratings: | |
|---|-------------|
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V Rated value | 2 hp |
| — at 230 V Rated value | 3 hp |
| Contact rating of the auxiliary contacts acc. to UL | A600 / Q600 |

Short-circuit:

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of assignment 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gL/gG: 10 A

| Installation/ mounting/ dimensions: | |
|-------------------------------------|--|
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| Side-by-side mounting Height | Yes 85 mm |
| Width | 61 mm |
| Depth | 97 mm |

| Required spacing | |
|------------------------------|------|
| • with side-by-side mounting | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| • for grounded parts | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 6 mm |
| — downwards | 0 mm |
| • for live parts | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 6 mm |
| | |

| Connections/ Terminals: | | |
|---|---|--|
| Type of electrical connection | | |
| • for main current circuit | screw-type terminals | |
| for auxiliary and control current circuit | screw-type terminals | |
| Type of connectable conductor cross-section | | |
| • for main contacts | | |
| — solid | 2x (1 2.5 mm²), 2x (2.5 10 mm²) | |
| — single or multi-stranded | 2x (1 2,5 mm²), 2x (2,5 10 mm²) | |
| finely stranded with core end processing | 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² | |
| for AWG conductors for main contacts | 2x (16 12), 2x (14 8) | |
| for auxiliary contacts | | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | |
| single or multi-stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) | |
| — finely stranded with core 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) | |

| Safety related data: | |
|--|-----------|
| B10 value with high demand rate acc. to SN 31920 | 1 000 000 |
| Proportion of dangerous failures | |
| with low demand rate acc. to SN 31920 | 40 % |
| with high demand rate acc. to SN 31920 | 73 % |
| Product function | |
| Mirror contact acc. to IEC 60947-4-1 | Yes |

• positively driven operation acc. to IEC 60947-5-No T1 value for proof test interval or service life acc. to 20 y IEC 61508 Protection against electrical shock finger-safe

Mechanical data:

S0 Size of contactor

Ambient conditions: Installation altitude at height above sea level 2 000 m maximum Ambient temperature -25 ... +60 °C during operation -55 ... +80 °C • during storage

Certificates/ approvals:

General Product Approval EMC Functional Safety/Safety of Machinery











Type Examination

| Declaration of Conformity | Test Certificates | Shipping Approval |
|---------------------------|-------------------|-------------------|
| | | |



Type Test Certificates/Test Report

Special Test Certificate







other

Shipping Approval



GL

LRS







Environmental Confirmations

other

Confirmation



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=3RT25261AF00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT25261AF00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT25261AF00&lang=en









