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## Data sheet 3RT2526-2XJ40-0LA2

Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 72 V DC, pole reversing 4-pole size S0 Spring-type terminals 1 NO + 1 NC integrated Traction contactor, integrated varistor

| | |
|---|---|
| **product brand name** | SIRIUS |
| **product designation** | Power contactor |
| **design of the product** | With extended operating range |
| **product type designation** | 3RT25 |
| **General technical data** | |
| **size of contactor** | S0 |
| **product extension** | |
| ● function module for communication | No |
| ● auxiliary switch | Yes |
| **insulation voltage** | |
| ● of main circuit with degree of pollution 3 rated value | 690 V |
| ● of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| **surge voltage resistance** | |
| ● of main circuit rated value | 6 kV |
| ● of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 400 V |
| **shock resistance at rectangular impulse** | |
| ● at DC | 10g / 5 ms, 7,5g / 10 ms |
| **shock resistance with sine pulse** | |
| ● at DC | 15g / 5 ms, 10g / 10 ms |
| **mechanical service life (switching cycles)** | |
| ● of contactor typical | 10 000 000 |
| ● of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| ● of the contactor with added auxiliary switch block typical | 10 000 000 |
| **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 | -40 ... +70 °C |
| ● during storage | -55 ... +80 °C |
| **relative humidity minimum** | 10 % |
| **relative humidity at 55 °C according to IEC 60068-2-30 maximum** | 95 % |
| **Main circuit** | |
| **number of poles for main current circuit** | 4 |
| **number of NO contacts for main contacts** | 2 |
| **number of NC contacts for main contacts** | 2 |


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| **operating voltage** | |
| ● at AC-3 rated value maximum | 400 V |
| **operational current** | |
| ● at AC-1 at 400 V at ambient temperature 40 °C rated value | 40 A |
| ● 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 400 V rated value | 20 A |
| ● at AC-3 | |
| — at 400 V rated value | 20 A |
| ● at AC-4 at 400 V rated value | 15.5 A |
| **minimum cross-section in main circuit** | |
| ● at maximum AC-1 rated value | 10 mm² |
| **operational current for approx. 200000 operating cycles at AC-4** | |
| ● at 400 V rated value | 9 A |
| ● at 690 V rated value | 9 A |
| **operating power** | |
| ● at AC-2 at 400 V rated value | 7.5 kW |
| ● at AC-3 | |
| — at 230 V rated value | 5.5 kW |
| — at 400 V rated value | 7.5 kW |
| **operating power for approx. 200000 operating cycles at AC-4** | |
| ● at 400 V rated value | 4.4 kW |
| ● at 690 V rated value | 7.7 kW |
| **no-load switching frequency** | |
| ● at DC | 1 500 1/h |
| **operating frequency** | |
| ● at AC-1 maximum | 750 1/h |
| ● at AC-2 maximum | 750 1/h |
| ● at AC-3 maximum | 750 1/h |
| ● at AC-4 maximum | 200 1/h |
| **Control circuit/ Control** | |
| **type of voltage** | DC |
| **type of voltage of the control supply voltage** | DC |
| **control supply voltage at DC** | |
| ● rated value | 72 V |
| **operating range factor control supply voltage rated value of magnet coil at DC** | |
| ● initial value | 0.7 |
| ● full-scale value | 1.25 |
| **design of the surge suppressor** | with varistor |
| **duration of locked-rotor current** | 180 ms |
| **closing power of magnet coil at DC** | 13.2 W |
| **holding power of magnet coil at DC** | 1.3 W |
| **closing delay** | |
| ● at DC | 50 ... 75 ms |
| **opening delay** | |
| ● at DC | 30 ... 50 ms |
| **arcing time** | 10 ... 10 ms |
| **control version of the switch operating mechanism** | Standard A1 - A2 |
| **Auxiliary circuit** | |
| **number of NC contacts for auxiliary contacts** | 1 |
| ● instantaneous contact | 1 |
| **number of NO contacts for auxiliary contacts** | 1 |
| ● instantaneous contact | 1 |
| operational current at AC-12 maximum | 10 A |
| **operational current at AC-15** | |
| ● at 230 V rated value | 10 A |
| ● at 400 V rated value | 3 A |
| ● at 500 V rated value | 2 A |


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|---|---|
| ● at 690 V rated value | 1 A |
| **operational current at DC-12** | |
| ● at 24 V rated value | 10 A |
| ● at 48 V rated value | 6 A |
| ● 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 |
| **operational current at DC-13** | |
| ● at 24 V rated value | 10 A |
| ● at 48 V rated value | 2 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 |
| **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 auxiliary contacts according to UL** | A600 / Q600 |
| **Short-circuit protection** | |
| **product function short circuit protection** | No |
| **design of the fuse link** | |
| ● for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 63 A (690 V, 100 kA) |
| — with type of assignment 2 required | gG: 35 A (690 V, 50 kA) |
| ● for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| **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 |
| **fastening method** | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| ● side-by-side mounting | Yes |
| **height** | 102 mm |
| **width** | 61 mm |
| **depth** | 107 mm |
| **required spacing** | |
| ● with side-by-side mounting | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| ● for grounded parts | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — at the side | 6 mm |
| — downwards | 10 mm |
| ● for live parts | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| **Connections/ Terminals** | |
| **type of electrical connection** | |
| ● for main current circuit | spring-loaded terminals |
| ● for auxiliary and control circuit | spring-loaded terminals |
| ● at contactor for auxiliary contacts | Spring-type terminals |
| ● of magnet coil | Spring-type terminals |
| **type of connectable conductor cross-sections** | |


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| | |
|---|---|
| ● for main contacts | |
| — solid | 2x (1 ... 10 mm²) |
| — solid or stranded | 2x (1 ... 10 mm²) |
| — finely stranded with core end processing | 2x (1 ... 6 mm²) |
| — finely stranded without core end processing | 2x (1 ... 6 mm²) |
| ● at AWG cables for main contacts | 2x (18 ... 8) |
| **type of connectable conductor cross-sections** | |
| ● for auxiliary contacts | |
| — solid | 2x (0.5 ... 2.5 mm²) |
| — solid or stranded | 2x (0.5 ... 2.5 mm²) |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm²) |
| — finely stranded without core end processing | 2x (0.5 ... 1.5 mm²) |
| ● at AWG cables for auxiliary contacts | 2x (20 ... 14) |
| **AWG number as coded connectable conductor cross section** | |
| ● for main contacts | 18 ... 8 |
| ● for auxiliary contacts | 20 ... 14 |

## Safety related data

| | |
|---|---|
| **product function** | |
| ● mirror contact according to IEC 60947-4-1 | Yes |
| ● positively driven operation according to IEC 60947-5-1 | No |
| B10 value with high demand rate according to SN 31920 | 450 000 |
| T1 value for proof test interval or service life according to IEC 61508 | 20 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 |

## Communication/ Protocol

| | |
|---|---|
| **product function bus communication** | No |

## Certificates/ approvals

**General Product Approval** | **EMC**

Confirmation

| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates | | Marine / Shipping |
|---|---|---|---|---|
| Type Examination Certificate | | Special Test Certificate | Type Test Certificates/Test Report | |

**Marine / Shipping**

| other | Railway | | Dangerous Good |
|---|---|---|---|
| Confirmation | Vibration and Shock | Special Test Certificate | Transport Information |


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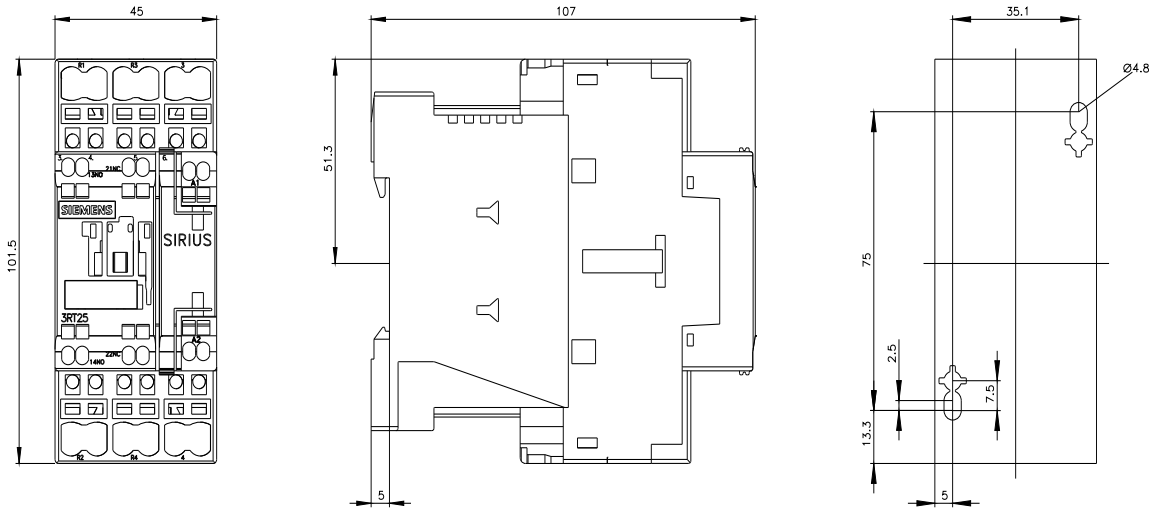
## Further information

**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=3RT2526-2XJ40-0LA2
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-2XJ40-0LA2
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2XJ40-0LA2
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-2XJ40-0LA2&lang=en
**Characteristic: Tripping characteristics, I²t, Let-through current**
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2XJ40-0LA2/char
**Further characteristics (e.g. electrical endurance, switching frequency)**
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-2XJ40-0LA2&objecttype=14&gridview=view1





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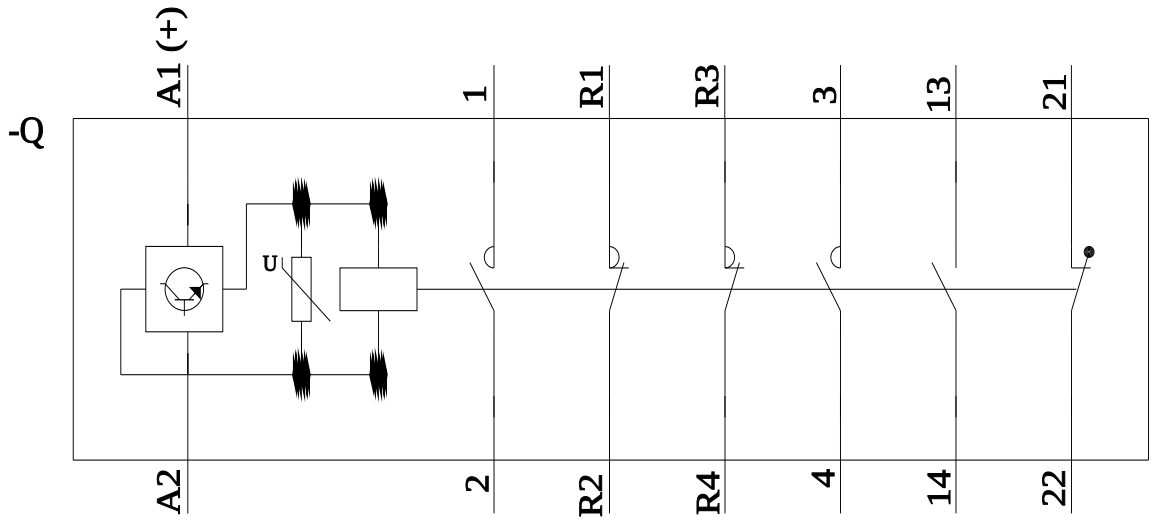


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