SIEMENS

## Data sheet 3RT1024-1AP64

Figure similar

CONTACTOR, AC-3 5,5 KW/400 V, AC 220V 50HZ/240V 60HZ, 3-POLE, 2 NO + 2 NC, SIZE S0, SCREW CONNECTION

| | |
|---|---|
| **product brand name** | SIRIUS |
| **Product designation** | power contactor |

| General technical data: | |
|---|---|
| **Size of contactor** | S0 |
| **Degree of pollution** | 3 |
| **Mechanical service life (switching cycles)** | |
| • of the contactor typical | 10 000 000 |
| • of the contactor with added electronics-compatible auxiliary switch block typical | 5 000 000 |
| • of the contactor with added auxiliary switch block typical | 10 000 000 |
| **Protection class IP** | |
| • on the front | IP20 |
| • of the terminal | IP20 |
| **Equipment marking** | |
| • acc. to DIN EN 61346-2 | Q |
| • acc. to DIN EN 81346-2 | Q |

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

| Main circuit: | |
|---|---|
| **Number of poles for main current circuit** | 3 |
| **Number of NC contacts for main contacts** | 0 |

| | |
|---|---|
| **Number of NO contacts for main contacts** | 3 |
| **Operating 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 |
| — at ambient temperature 60 °C Rated value | 35 A |
| • at AC-3 | |
| — at 400 V Rated value | 12 A |
| • at AC-4 at 400 V Rated value | 12.5 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 |
| • with 2 current paths in series at DC-1 | |
| — at 24 V Rated value | 35 A |
| — at 110 V Rated value | 35 A |
| • with 3 current paths in series at DC-1 | |
| — at 24 V Rated value | 35 A |
| — at 110 V Rated value | 35 A |
| **Operating current** | |
| • with 1 current path at DC-3 at DC-5 | |
| — at 24 V Rated value | 20 A |
| — at 110 V Rated value | 2.5 A |
| • with 2 current paths in series at DC-3 at DC-5 | |
| — at 110 V Rated value | 15 A |
| — at 24 V Rated value | 35 A |
| • with 3 current paths in series at DC-3 at DC-5 | |
| — at 110 V Rated value | 35 A |
| — at 24 V Rated value | 35 A |
| **Active power loss at AC-3 at 400 V for rated value of the operating current per conductor** | 0.5 W |

| Control circuit/ Control: | |
|---|---|
| **Type of voltage of the control supply voltage** | AC |
| **Control supply voltage with AC** | |
| • at 50 Hz Rated value | 220 V |
| • at 60 Hz Rated value | 240 V |
| • Rated value | 50 Hz |
| **Control supply voltage frequency 2 Rated value** | 60 Hz |
| **Operating range factor control supply voltage rated value of the magnet coil with AC** | |
| • at 50 Hz | 0.8 ... 1.1 |

| | |
|---|---|
| • at 60 Hz | 0.8 ... 1.1 |
| **Apparent pick-up power of the magnet coil with AC** | 69 V·A |
| **Inductive power factor with closing power of the coil** | 0.76 |
| **Apparent holding power of the magnet coil with AC** | 7.5 V·A |
| **Inductive power factor with the holding power of the coil** | 0.28 |

| Auxiliary circuit: | |
|---|---|
| **Number of NC contacts** | |
| • for auxiliary contacts | |
| — instantaneous contact | 2 |
| **Number of NO contacts** | |
| • for auxiliary contacts | |
| — instantaneous contact | 2 |
| Operating current at AC-12 maximum | 10 A |
| **Operating current at AC-15** | |
| • at 230 V Rated value | 6 A |
| • at 400 V Rated value | 3 A |
| **Operating current at DC-12** | |
| • at 60 V Rated value | 6 A |
| • at 110 V Rated value | 3 A |
| • at 220 V Rated value | 1 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 220 V Rated value | 0.3 A |
| **Contact reliability of the auxiliary contacts** | 1 faulty switching per 100 million (17 V, 1 mA) |

| Short-circuit: | |
|---|---|
| **Design of the fuse link** | |
| • for short-circuit protection of the main circuit | |
| — with type of assignment 1 required | fuse gL/gG: 63 A |
| — with type of assignment 2 required | fuse gL/gG: 25 A |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |

| Installation/ mounting/ dimensions: | |
|---|---|
| **Mounting type** | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| • Side-by-side mounting | Yes |
| **Height** | 85 mm |
| **Width** | 45 mm |
| **Depth** | 140 mm |

| | |
|---|---|
| **Required spacing** | |
| • for grounded parts | |
| — 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 ... 6 mm²), max. 2x 10 mm² |
| — single or multi-stranded | 2x (1 ... 2,5 mm²), 2x (2,5 ... 6 mm²), max. 2x 10 mm² |
| — finely stranded with core end processing | 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²) |
| • for AWG conductors for main contacts | 2x (16 ... 12), 2x (14 ... 10), 1x 8 |
| **Type of connectable conductor cross-section** | |
| • for auxiliary contacts | |
| — solid | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 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), 1x 12 |

## Certificates/ approvals:

| General Product Approval | | | Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|---|---|---|---|---|---|
| CSA | EAC | UL | Type Examination | EG-Konf. | Type Test Certificates/Test Report |

| Test Certificates | Shipping Approval | | | | |
|---|---|---|---|---|---|
| Special Test Certificate | ABS | DNV | GL | LRS | RINA |

| Shipping Approval | other | | |
|---|---|---|---|
| RMRS | Confirmation | other | Environmental Confirmations |

## Further information

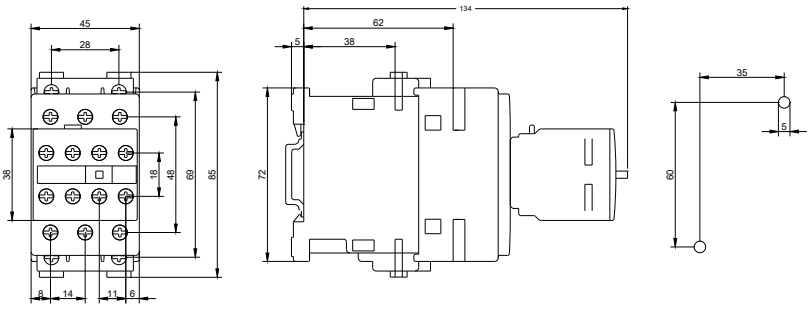
**Information- and Downloadcenter (Catalogs, Brochures,…)**
http://www.siemens.com/industrial-controls/catalogs

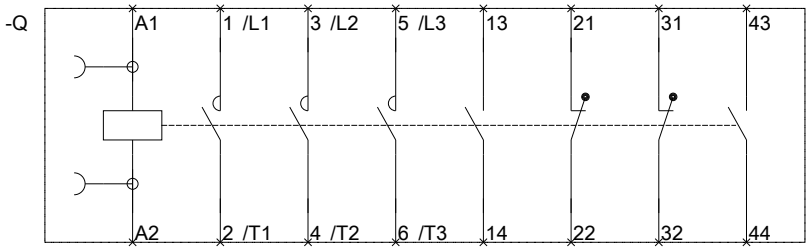
**Industry Mall (Online ordering system)**
http://www.siemens.com/industrymall

**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10241AP64

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RT10241AP64

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10241AP64&lang=en



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