## **SIEMENS**

Data sheet 3RT1265-6AM36

Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 200-220 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional



Figure similar

| Product brand name       | SIRIUS           |
|--------------------------|------------------|
| Product designation      | Vacuum contactor |
| Product type designation | 3RT12            |

| •   |   |
|---|---|
| General technical data                                |   |
| Size of contactor                                     | S10   |
| Product extension                                     |   |
| <ul> <li>function module for communication</li> </ul> | No  |
| Auxiliary switch                                      | Yes   |
| Surge voltage resistance                              |   |
| <ul> <li>of main circuit rated value</li> </ul>       | 8 kV  |
| <ul> <li>of auxiliary circuit rated value</li> </ul>  | 6 kV  |
| maximum permissible voltage for safe isolation        |   |
| • between coil and main contacts acc. to EN           | 690 V   |
| 60947-1   |   |
| Protection class IP                                   |   |
| • on the front  | IP00; IP20 on the front with cover / box terminal |
| <ul><li>of the terminal</li></ul>                     | IP00  |
|   |   |

| Shock resistance at rectangular impulse  |                            |
|--|----------------------------|
| • at AC  | 8,5g / 5 ms, 4,2g / 10 ms  |
| • at DC  | 8,5g / 5 ms, 4,2g / 10 ms  |
| Shock resistance with sine pulse   |                            |
| • at AC  | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC  | 13,4g / 5 ms, 6,5g / 10 ms |
| Mechanical service life (switching cycles)   |                            |
| of contactor typical   | 10 000 000                 |
| <ul> <li>of the contactor with added electronics-</li> </ul>                       | 5 000 000                  |
| compatible auxiliary switch block typical  |                            |
| <ul> <li>of the contactor with added auxiliary switch<br/>block typical</li> </ul> | 10 000 000                 |
| Reference code acc. to DIN 40719 extended  | К                          |
| according to IEC 204-2 acc. to IEC 750   |                            |
| Reference code 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                 |
| during storage   | -55 +80 °C                 |
| Main circuit   |                            |
| Number of poles for main current circuit   | 3                          |
| Number of NO contacts for main contacts  | 3                          |
| Operating voltage  |                            |
| <ul> <li>at AC-3 rated value maximum</li> </ul>                                    | 1 000 V                    |
| Operating current  |                            |
| ● at AC-1 at 400 V   |                            |
| — at ambient temperature 40 °C rated value   | 330 A                      |
| • at AC-1  |                            |
| <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>           | 330 A                      |
| <ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>           | 300 A                      |
| — up to 1000 V at ambient temperature 40 °C rated value                            | 330 A                      |
| — up to 1000 V at ambient temperature 60 °C rated value                            | 300 A                      |
| • at AC-2 at 400 V rated value   | 265 A                      |
| • at AC-3  |                            |
|  | 265 A                      |
| — at 400 v rated value   | 203 A                      |
| <ul><li>— at 400 V rated value</li><li>— at 500 V rated value</li></ul>            | 265 A                      |

| — at 690 V rated value   | 265 A     |
|--|-----------|
| — at 1000 V rated value  | 265 A     |
| • at AC-4 at 400 V rated value   | 230 A     |
| Connectable conductor cross-section in main circuit                                    |           |
| at AC-1  |           |
| <ul> <li>at 60 °C minimum permissible</li> </ul>                                       | 185 mm²   |
| <ul> <li>at 40 °C minimum permissible</li> </ul>                                       | 185 mm²   |
| Operating current for approx. 200000 operating cycles at AC-4                          |           |
| • at 400 V rated value   | 115 A     |
| • at 690 V rated value   | 81 A      |
| Operating power  |           |
| • at AC-1  |           |
| — at 230 V at 60 °C rated value  | 113 kW    |
| — at 400 V rated value   | 197 kW    |
| — at 400 V at 60 °C rated value  | 300 kW    |
| — at 690 V rated value   | 340 kW    |
| — at 690 V at 60 °C rated value  | 340 kW    |
| — at 1000 V at 60 °C rated value   | 492 kW    |
| • at AC-2 at 400 V rated value   | 132 kW    |
| • at AC-3  |           |
| — at 230 V rated value   | 75 kW     |
| — at 400 V rated value   | 132 kW    |
| — at 500 V rated value   | 160 kW    |
| — at 690 V rated value   | 250 kW    |
| — at 1000 V rated value  | 355 kW    |
| Operating power for approx. 200000 operating cycles                                    |           |
| at AC-4  |           |
| • at 400 V rated value   | 65 kW     |
| • at 690 V rated value   | 112 kW    |
| Thermal short-time current limited to 10 s   | 2 120 A   |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 12 W      |
| No-load switching frequency  |           |
| • at AC  | 2 000 1/h |
| • at DC  | 2 000 1/h |
| Operating frequency  |           |
| • at AC-1 maximum  | 750 1/h   |
| • at AC-2 maximum  | 250 1/h   |
| • at AC-3 maximum  | 750 1/h   |
| • at AC-4 maximum  |           |
| at 710 T maximum   | 250 1/h   |

| Type of voltage of the control supply voltage                                  | AC/DC            |
|--|------------------|
| Control supply voltage at AC   |                  |
| • at 50 Hz rated value   | 200 220 V        |
| • at 60 Hz rated value   | 200 220 V        |
| Control supply voltage at DC   |                  |
| • rated value  | 200 220 V        |
| Operating range factor control supply voltage rated value of magnet coil at DC |                  |
| • initial value  | 0.8              |
| Full-scale value   | 1.1              |
| Operating range factor control supply voltage rated value of magnet coil at AC |                  |
| ● at 50 Hz   | 0.8 1.1          |
| ● at 60 Hz   | 0.8 1.1          |
| Design of the surge suppressor   | with varistor    |
| Apparent pick-up power of magnet coil at AC                                    |                  |
| ● at 50 Hz   | 590 V·A          |
| Inductive power factor with closing power of the coil                          |                  |
| ● at 50 Hz   | 0.9              |
| Apparent holding power of magnet coil at AC                                    |                  |
| ● at 50 Hz   | 6.1 V·A          |
| Inductive power factor with the holding power of the coil                      |                  |
| ● at 50 Hz   | 0.9              |
| Closing power of magnet coil at DC   | 700 W            |
| Holding power of magnet coil at DC   | 8.2 W            |
| Closing delay  |                  |
| • at AC  | 30 95 ms         |
| ● at DC  | 30 95 ms         |
| Opening delay  |                  |
| • at AC  | 40 80 ms         |
| ● at DC  | 40 80 ms         |
| Arcing time  | 10 15 ms         |
| Control version of the switch operating mechanism                              | Standard A1 - A2 |
| Auxiliary circuit  |                  |
| Number of NC contacts for auxiliary contacts                                   |                  |
| • instantaneous contact  | 2                |
|  |                  |
| Number of NO contacts for auxiliary contacts                                   |                  |
| Number of NO contacts for auxiliary contacts  • instantaneous contact          | 2                |
| •  | 2<br>10 A        |
| • instantaneous contact  |                  |

| • at 400 V rated value                    | 3 A   |
|---|---|
| • at 500 V rated value                    | 2 A   |
| • at 690 V rated value                    | 1 A   |
| Operating 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  |
| Operating 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   |
| Contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
|   |   |

| UL/CSA ratings                                       |             |
|--|-------------|
| Full-load current (FLA) for three-phase AC motor     |             |
| ● at 480 V rated value                               | 240 A       |
| • at 600 V rated value                               | 242 A       |
| Yielded mechanical performance [hp]                  |             |
| • for three-phase AC motor                           |             |
| — at 200/208 V rated value                           | 75 hp       |
| — at 220/230 V rated value                           | 100 hp      |
| — at 460/480 V rated value                           | 200 hp      |
| — at 575/600 V rated value                           | 250 hp      |
| Contact rating of auxiliary contacts according to UL | A600 / Q600 |

| Short-circuit protection  |   |
|---|---|
| Design of the fuse link   |   |
| <ul> <li>for short-circuit protection of the main circuit</li> </ul>                  |   |
| <ul> <li>— with type of coordination 1 required</li> </ul>                            | gG: 500 A (690 V, 100 kA)   |
| — with type of assignment 2 required  | gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) |
| <ul> <li>for short-circuit protection of the auxiliary switch<br/>required</li> </ul> | gG: 10 A (500 V, 1 kA)  |

### Installation/ mounting/ dimensions

| Mounting position  | +/-22,5° rotation possible on vertical mounting surface; can be |
|--|---|
|  | tilted forward and backward by +/- 22.5° on vertical mounting   |
|  | surface; standing, on horizontal mounting surface               |
| Mounting type  | screw fixing  |
| Side-by-side mounting                                      | Yes   |
| Height   | 210 mm  |
| Width  | 145 mm  |
| Depth  | 206 mm  |
| Required spacing   |   |
| <ul><li>with side-by-side mounting</li></ul>               |   |
| — forwards   | 20 mm   |
| — upwards  | 10 mm   |
| — downwards  | 10 mm   |
| — at the side  | 0 mm  |
| • for grounded parts                                       |   |
| — forwards   | 20 mm   |
| — upwards  | 10 mm   |
| — at the side  | 10 mm   |
| — downwards  | 10 mm   |
| • for live parts   |   |
| — forwards   | 20 mm   |
| — upwards  | 10 mm   |
| — downwards  | 10 mm   |
| — at the side  | 10 mm   |
| Connections/Terminals                                      |   |
| Type of electrical connection                              |   |
| for main current circuit                                   | Connection bar  |
| for auxiliary and control current circuit                  | screw-type terminals  |
| Type of connectable conductor cross-sections               |   |
| at AWG conductors for main contacts                        | 2/0 500 kcmil   |
| Connectable conductor cross-section for main contacts      |   |
| • stranded   | 70 240 mm²  |
| Connectable conductor cross-section for auxiliary contacts |   |
| single or multi-stranded                                   | 0.5 4 mm²   |
| finely stranded with core end processing                   | 0.5 2.5 mm²   |
| Type of connectable conductor cross-sections               |   |
| • for auxiliary contacts                                   |   |
| — solid  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)       |
| single or multi-stranded                                   | 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)                             |

• at AWG conductors for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14), 1x 12

# AWG number as coded connectable conductor cross section

• for auxiliary contacts

18 ... 14

#### Safety related data

#### Product function

1

• Mirror contact acc. to IEC 60947-4-1

Yes

• positively driven operation acc. to IEC 60947-5-

No

Protection against electrical shock

finger-safe when touched vertically from front acc. to IEC 60529

#### Certificates/approvals

#### **General Product Approval**

Functional
Safety/Safety
of Machinery

Declaration of Conformity









Type Examination
Certificate



**Test Certificates** 

#### Marine / Shipping

other

Special Test Certificate

Type Test Certificates/Test Report







Confirmation

#### other

Miscellaneous

#### Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1265-6AM36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1265-6AM36

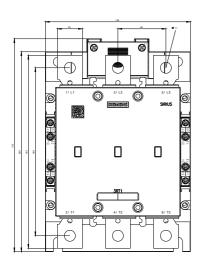
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

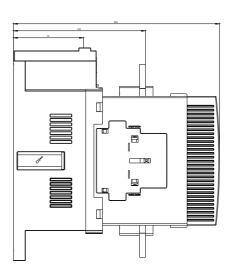
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AM36

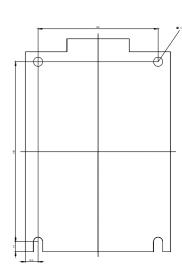
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1265-6AM36&lang=en

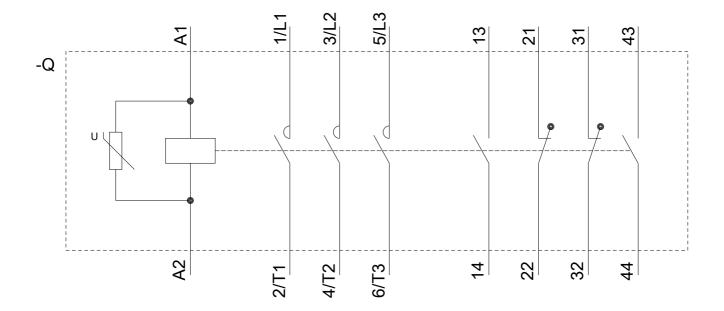
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AM36/char









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