



CONTACTOR, 75KW/400V/AC-3, AC(40...60HZ)/DC  
OPERATION UC 42...48V AUXIL. CONTACTS  
2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS  
CONVENTIONAL OPERATING MECHAN. SCREW  
TERMINAL

Figure similar

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

General technical data:

|   |    |            |
|---|----|------------|
| <b>Insulation voltage</b>   |    |            |
| • Rated value   | V  | 1 000      |
| <b>Degree of pollution</b>  |    | 3          |
| <b>Surge voltage resistance Rated value</b>   | kV | 8          |
| <b>Mechanical service life (switching cycles)</b>                                   |    |            |
| • 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 |
| <b>Thermal short-time current restricted to 10 s</b>                                | A  | 1 300      |
| <b>Protection class IP</b>  |    |            |
| • on the front  |    | IP00       |
| • of the terminal   |    | IP00       |
| <b>Equipment marking</b>  |    |            |
| • acc. to DIN EN 61346-2  |    | Q          |
| • acc. to DIN EN 81346-2  |    | Q          |

Main circuit:

|   |  |   |
|---|--|---|
| <b>Number of poles for main current circuit</b> |  | 3 |
| <b>Number of NC contacts for main contacts</b>  |  | 0 |
| <b>Number of NO contacts for main contacts</b>  |  | 3 |
| <b>Operating current</b>                        |  |   |

|   |                                 |  |
|---|---------------------------------|--|
| <ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— at 400 V at ambient temperature 40 °C Rated value</li> <li>— up to 690 V at ambient temperature 40 °C Rated value</li> <li>— up to 690 V at ambient temperature 60 °C Rated value</li> </ul> </li> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> <li>• at AC-4 at 400 V Rated value</li> </ul> | A<br>A<br>A<br>A<br>A<br>A<br>A | 185<br>185<br>160<br>150<br>150<br>132 |
| <b>Operating current with 1 current path</b>  |                                 |  |
| <ul style="list-style-type: none"> <li>• at DC-1 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> <li>• at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> </ul>  | A<br>A<br>A<br>A                | 160<br>18<br>160<br>2.5                |
| <b>Operating current with 2 current paths in series</b>   |                                 |  |
| <ul style="list-style-type: none"> <li>• at DC-1 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> <li>• at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> </ul> </li> </ul>  | A<br>A<br>A<br>A                | 160<br>160<br>160<br>160               |
| <b>Operating current with 3 current paths in series</b>   |                                 |  |
| <ul style="list-style-type: none"> <li>• at DC-1 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> <li>• at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> </ul> </li> </ul>  | A<br>A<br>A<br>A                | 160<br>160<br>160<br>160               |
| <b>Operating power</b>  |                                 |  |
| <ul style="list-style-type: none"> <li>• at AC-1 at 400 V Rated value</li> <li>• at AC-2 at 400 V Rated value</li> <li>• at AC-4 at 400 V Rated value</li> </ul>  | kW<br>kW<br>W                   | 105<br>84<br>75 000                    |
| <b>Operating power</b>  |                                 |  |
| <ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— at 230 V at 60 °C Rated value</li> <li>— at 690 V at 60 °C Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> <li>• at AC-3</li> </ul>  | kW<br>kW<br>kW                  | 60<br>181<br>181                       |

|  |     |     |
|--|-----|-----|
| — at 230 V Rated value   | kW  | 50  |
| — at 400 V Rated value   | kW  | 84  |
| — at 500 V Rated value   | kW  | 105 |
| — at 690 V Rated value   | kW  | 146 |
| <b>Operating power for <math>\geq 200000</math> operating cycles at AC-4</b> |     |     |
| • at 400 V Rated value   | kW  | 38  |
| • at 690 V Rated value   | kW  | 55  |
| <b>Operating frequency</b>   |     |     |
| • at AC-3 maximum  | 1/h | 750 |

| Control circuit/ Control:   |     |               |
|---|-----|---------------|
| <b>Type of voltage of the control supply voltage</b>  |     | AC/DC         |
| <b>Control supply voltage with AC</b>   |     |               |
| • at 50 Hz Rated value  | V   | 42 ... 48     |
| • at 60 Hz Rated value  | V   | 42 ... 48     |
| <b>Control supply voltage for DC</b>  |     |               |
| • Rated value   | V   | 42 ... 48     |
| • Rated value   | Hz  | 40            |
| <b>Control supply voltage frequency 2 Rated value</b>                                       | Hz  | 60            |
| <b>Operating range factor control supply voltage rated value of the magnet coil with AC</b> |     |               |
| • at 50 Hz  |     | 0.8 ... 1.1   |
| • at 60 Hz  |     | 0.8 ... 1.1   |
| <b>Operating range factor control supply voltage rated value of the magnet coil for DC</b>  |     | 0.8 ... 1.1   |
| <b>Design of the surge suppressor</b>   |     | with varistor |
| <b>Apparent pick-up power of the magnet coil with AC</b>                                    | V·A | 300           |
| <b>Apparent holding power of the magnet coil with AC</b>                                    | V·A | 5.8           |
| <b>Closing power of the magnet coil for DC</b>  | W   | 360           |
| <b>Holding power of the magnet coil for DC</b>  | W   | 5.2           |
| <b>Inductive power factor</b>   |     |               |
| • with closing power of the coil  |     | 0.9           |
| • with the holding power of the coil  |     | 0.8           |

| Auxiliary circuit:                |   |   |
|-----------------------------------|---|---|
| <b>Number of NC contacts</b>      |   |   |
| • for auxiliary contacts          |   |   |
| — instantaneous contact           |   | 2 |
| <b>Number of NO contacts</b>      |   |   |
| • for auxiliary contacts          |   |   |
| — instantaneous contact           |   | 2 |
| <b>Operating current at AC-15</b> |   |   |
| • at 230 V Rated value            | A | 6 |

|  |   |     |
|--|---|-----|
| <ul style="list-style-type: none"> <li>• at 400 V Rated value</li> </ul>   | A | 3   |
| <b>Operating current</b>   |   |     |
| <ul style="list-style-type: none"> <li>• at DC-12 at 220 V Rated value</li> </ul>  | A | 1   |
| <ul style="list-style-type: none"> <li>• at DC-13 at 220 V Rated value</li> </ul>  | A | 0.3 |
| <b>Operating current</b>   |   |     |
| <ul style="list-style-type: none"> <li>• at DC-12 <ul style="list-style-type: none"> <li>— at 60 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> </ul>                                | A | 6   |
|  | A | 3   |
| <ul style="list-style-type: none"> <li>• at DC-13 <ul style="list-style-type: none"> <li>— at 24 V Rated value</li> <li>— at 60 V Rated value</li> <li>— at 110 V Rated value</li> </ul> </li> </ul> | A | 10  |
|  | A | 2   |
|  | A | 1   |

|  |  |             |
|--|--|-------------|
| <b>UL/CSA ratings:</b>                                     |  |             |
| <b>Contact rating of the auxiliary contacts acc. to UL</b> |  | A600 / Q600 |

|   |  |  |
|---|--|--|
| <b>Short-circuit:</b>   |  |  |
| <b>Design of the fuse link</b>  |  |  |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of assignment 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> |  | fuse gL/gG: 355 A<br>fuse gL/gG: 315 A<br>fuse gL/gG: 10 A |

|   |    |              |
|---|----|--------------|
| <b>Installation/ mounting/ dimensions:</b>  |    |              |
| <b>Mounting type</b>  |    | screw fixing |
| <ul style="list-style-type: none"> <li>• Side-by-side mounting</li> </ul>   |    | Yes          |
| <b>Height</b>   | mm | 172          |
| <b>Width</b>  | mm | 120          |
| <b>Depth</b>  | mm | 170          |
| <b>Required spacing</b>   |    |              |
| <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul> | mm | 10           |

|  |  |   |
|--|--|---|
| <b>Connections/ Terminals:</b>   |  |   |
| <b>Type of electrical connection</b>   |  |   |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>  |  | screw-type terminals<br>screw-type terminals  |
| <b>Type of connectable conductor cross-section</b>   |  |   |
| <ul style="list-style-type: none"> <li>• for AWG conductors for main contacts</li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG conductors for auxiliary contacts</li> </ul> |  | 4 ... 250 kcmil<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> )<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br><br>2x (20 ... 16), 2x (18 ... 14), 1x 12 |

### Mechanical data:

Size of contactor S6

### Ambient conditions:

Installation altitude at height above sea level maximum m 2 000

#### Ambient temperature

- during operation °C -25 ... +60
- during storage °C -55 ... +80

### Certificates/ approvals:

#### General Product Approval

#### Functional Safety/Safety of Machinery

#### Declaration of Conformity



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

#### Test Certificates

#### Shipping Approval

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



DNV



GL



RMRS

#### other

[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

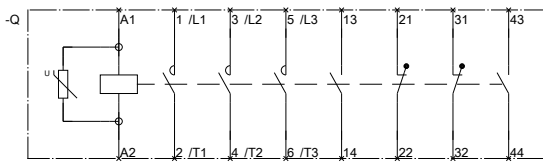
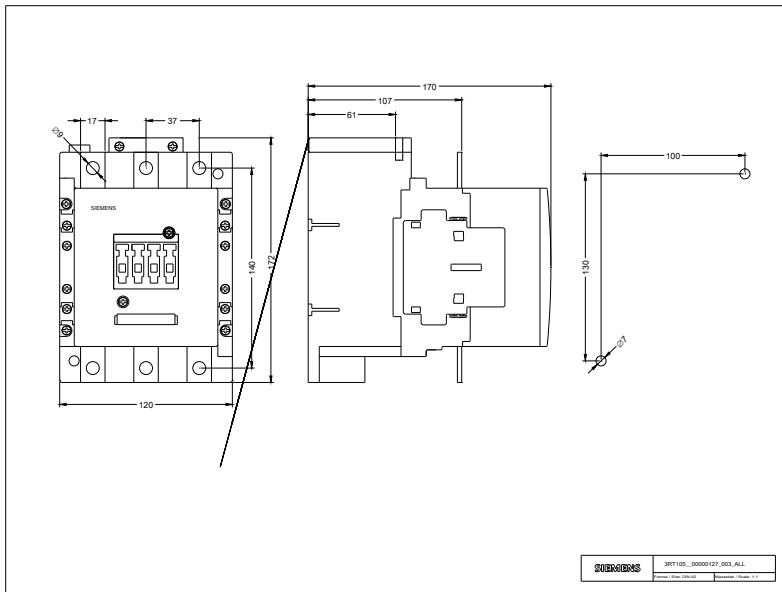
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RT10556AD36>

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

<http://support.automation.siemens.com/WW/view/en/3RT10556AD36/all>

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RT10556AD36&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT10556AD36&lang=en)



last modified:

11.03.2015

3RT106--A.6\_01\_4\_IEC.DXF  
3RT107--A.6\_01\_4\_IEC.DXF