

CONTACTOR, AC-3 4KW/400V, AC 230V, 50HZ, 3-POLE, SIZE S0, SCREW CONNECTION, WITH 2NO+2NC



Figure similar

|   |                 |
|---|-----------------|
| <b>product brand name</b>   | SIRIUS          |
| <b>Product designation</b>  | power contactor |
| <b>General technical data:</b>  |                 |
| <b>Size of contactor</b>  | S0              |
| <b>Degree of pollution</b>  | 3               |
| <b>Mechanical service life (switching cycles)</b>   |                 |
| <ul style="list-style-type: none"> <li>• of the contactor typical</li> </ul>  | 10 000 000      |
| <ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block typical</li> </ul> | 5 000 000       |
| <ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block typical</li> </ul>                        | 10 000 000      |
| <b>Protection class IP</b>  |                 |
| <ul style="list-style-type: none"> <li>• on the front</li> </ul>  | IP20            |
| <ul style="list-style-type: none"> <li>• of the terminal</li> </ul>   | IP20            |
| <b>Equipment marking</b>  |                 |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>  | Q               |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>  | Q               |
| <b>Ambient conditions:</b>  |                 |
| <b>Installation altitude at height above sea level maximum</b>  | 2 000 m         |
| <b>Ambient temperature</b>  |                 |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>  | -25 ... +60 °C  |
| <b>Main circuit:</b>  |                 |
| <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 at 400 V <ul style="list-style-type: none"> <li>— at ambient temperature 40 °C Rated value</li> </ul> </li> <li>• at AC-1 up to 690 V <ul style="list-style-type: none"> <li>— at ambient temperature 40 °C Rated value</li> <li>— 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> </ul> </li> <li>• at AC-4 at 400 V Rated value</li> </ul>   | <br>40 A<br>40 A<br>35 A<br>9 A<br>8.5 A          |
| <b>Operating current</b>   |   |
| <ul style="list-style-type: none"> <li>• with 1 current path 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>• with 2 current paths in series 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>• with 3 current paths in series 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> </ul>                         | <br>35 A<br>4.5 A<br>35 A<br>35 A<br>35 A<br>35 A |
| <b>Operating current</b>   |   |
| <ul style="list-style-type: none"> <li>• with 1 current path 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> <li>• with 2 current paths in series 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> <li>• with 3 current paths in series 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> | <br>20 A<br>2.5 A<br>15 A<br>35 A<br>35 A<br>35 A |
| <b>Active power loss at AC-3 at 400 V for rated value of the operating current per conductor</b>   | 0.4 W   |
| <b>Control circuit/ Control:</b>   |   |
| <b>Type of voltage of the control supply voltage</b>   | AC  |
| <b>Control supply voltage with AC</b>  |   |
| <ul style="list-style-type: none"> <li>• at 50 Hz Rated value</li> <li>• Rated value</li> </ul>  | <br>230 V<br>50 Hz                                |
| <b>Operating range factor control supply voltage rated value of the magnet coil with AC</b>  |   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>   | 0.8 ... 1.1                                       |
| <b>Apparent pick-up power of the magnet coil with AC</b>   | 61 V·A  |
| <b>Inductive power factor with closing power of the coil</b>   | 0.82  |

|   |         |
|---|---------|
| Apparent holding power of the magnet coil with AC         | 7.8 V·A |
| Inductive power factor with the holding power of the coil | 0.24    |

#### Auxiliary circuit:

|  |   |
|--|---|
| <b>Number of NC contacts</b>   |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul> </li> </ul>                  | 2   |
| <b>Number of NO contacts</b>   |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul> </li> </ul>                  | 2   |
| Operating current at AC-12 maximum   | 10 A  |
| <b>Operating current at AC-15</b>  |   |
| <ul style="list-style-type: none"> <li>• at 230 V Rated value</li> <li>• at 400 V Rated value</li> </ul>   | 6 A<br>3 A                                      |
| <b>Operating current at DC-12</b>  |   |
| <ul style="list-style-type: none"> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> </ul>                                | 6 A<br>3 A<br>1 A                               |
| <b>Operating current at DC-13</b>  |   |
| <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> <li>• at 220 V Rated value</li> </ul> | 10 A<br>2 A<br>1 A<br>0.3 A                     |
| <b>Contact reliability of the auxiliary contacts</b>   | 1 faulty switching per 100 million (17 V, 1 mA) |

#### Short-circuit:

|   |  |
|---|--|
| <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: 63 A<br>fuse gL/gG: 25 A<br>fuse gL/gG: 10 A |

#### Installation/ mounting/ dimensions:

|   |  |
|---|--|
| <b>Mounting type</b>  | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <ul style="list-style-type: none"> <li>• Side-by-side mounting</li> </ul>   | Yes  |
| <b>Height</b>   | 85 mm  |
| <b>Width</b>  | 45 mm  |
| <b>Depth</b>  | 140 mm   |
| <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> | 6 mm   |

## Connections/ Terminals:

|   |   |
|---|---|
| <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>  | <p>screw-type terminals</p> <p>screw-type terminals</p>   |
| <b>Type of connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG conductors for main contacts</li> </ul> | <p>2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>), max. 2x 10 mm<sup>2</sup></p> <p>2x (1 ... 2,5 mm<sup>2</sup>), 2x (2,5 ... 6 mm<sup>2</sup>), max. 2x 10 mm<sup>2</sup></p> <p>2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>)</p> <p>2x (16 ... 12), 2x (14 ... 10), 1x 8</p> |
| <b>Type of connectable conductor cross-section</b> <ul style="list-style-type: none"> <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>                           | <p>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>)</p> <p>2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</p> <p>2x (20 ... 16), 2x (18 ... 14), 1x 12</p>   |

## Certificates/ approvals:

|                                 |  |                                  |
|---------------------------------|--|----------------------------------|
| <b>General Product Approval</b> | <b>Functional Safety/Safety of Machinery</b> | <b>Declaration of Conformity</b> |
|---------------------------------|--|----------------------------------|



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## 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**

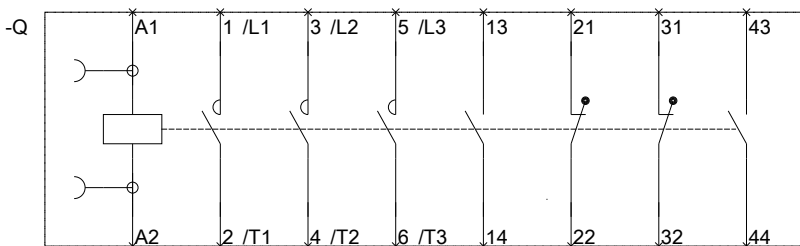
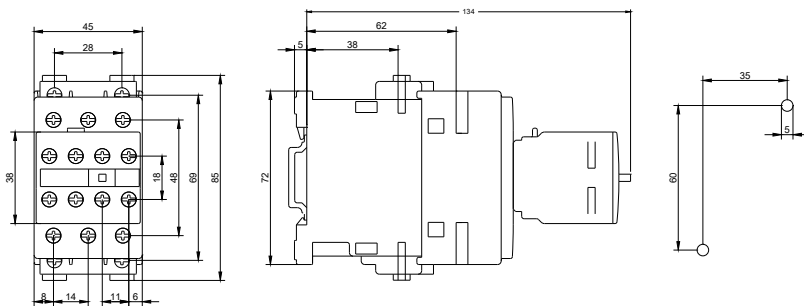
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RT10231AP04>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10231AP04>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RT10231AP04&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT10231AP04&lang=en)



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