

CONTACTOR, AC-3 3 KW/400 V, 1 NO, AC 110 V, 50/60 HZ, 3-POLE, SIZE S00, CAGE CLAMP CONNECTION



Figure similar

|                                                                                     |                 |
|-------------------------------------------------------------------------------------|-----------------|
| product brand name                                                                  | SIRIUS          |
| Product designation                                                                 | power contactor |
| General technical data:                                                             |                 |
| Size of contactor                                                                   | S00             |
| Protection class IP                                                                 |                 |
| • on the front                                                                      | IP20            |
| • of the terminal                                                                   | IP20            |
| Degree of pollution                                                                 | 3               |
| Mechanical service life (switching cycles)                                          |                 |
| • of the contactor typical                                                          | 30 000 000      |
| • 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      |
| Ambient conditions:                                                                 |                 |
| Installation altitude at height above sea level maximum                             | 2 000 m         |
| Ambient temperature                                                                 |                 |
| • during operation                                                                  | -25 ... +60 °C  |

| Main circuit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Number of NO contacts for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                                                       |
| Number of NC contacts for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                                       |
| <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> </ul>                                                                                     | 18 A<br><br>18 A<br>16 A<br><br>7 A                     |
| <b>Operating current</b> <ul style="list-style-type: none"> <li>• at 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>                         | 15 A<br>1.5 A<br><br>15 A<br>8.4 A<br><br>15 A<br>15 A  |
| <b>Operating current</b> <ul style="list-style-type: none"> <li>• at 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> | 15 A<br>0.1 A<br><br>0.25 A<br>15 A<br><br>15 A<br>15 A |
| <b>Operating power</b> <ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— at 400 V Rated value</li> </ul> </li> <li>• at AC-2 at 400 V Rated value</li> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V Rated value</li> <li>— at 500 V Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> </ul>                                                                                                                                                                                             | 11 kW<br>3 kW<br><br>3 kW<br>3.5 kW<br>4 kW             |
| Active power loss at AC-3 at 400 V for rated value of the operating current per conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.42 W                                                  |

**Control circuit/ Control:**

|                                                                                    |              |
|------------------------------------------------------------------------------------|--------------|
| Type of voltage of the control supply voltage                                      | AC           |
| Control supply voltage at AC                                                       |              |
| • at 50 Hz Rated value                                                             | 110 V        |
| • at 60 Hz Rated value                                                             | 110 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 at AC |              |
| • at 50 Hz                                                                         | 0.8 ... 1.1  |
| • at 60 Hz                                                                         | 0.85 ... 1.1 |
| Apparent pick-up power of the magnet coil at AC                                    | 27 V·A       |
| Inductive power factor with closing power of the coil                              | 0.8          |
| Apparent holding power of the magnet coil at AC                                    | 4.4 V·A      |
| Inductive power factor with the holding power of the coil                          | 0.27         |

**Auxiliary circuit:**

|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Number of NC contacts                         |                                                 |
| • for auxiliary contacts                      |                                                 |
| — instantaneous contact                       | 0                                               |
| Number of NO contacts                         |                                                 |
| • for auxiliary contacts                      |                                                 |
| — instantaneous contact                       | 1                                               |
| 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: 35 A |
| — with type of assignment 2 required               | fuse gL/gG: 20 A |

- for short-circuit protection of the auxiliary switch required

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>                                                                                 | 60 mm                                                                                  |
| <b>Width</b>                                                                                  | 45 mm                                                                                  |
| <b>Depth</b>                                                                                  | 73 mm                                                                                  |
| <b>Required spacing</b>                                                                       |                                                                                        |
| <ul style="list-style-type: none"> <li>• for grounded parts</li> <li>— at the side</li> </ul> | 6 mm                                                                                   |

#### Certificates/ approvals:

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



CCC



CSA



UL



UR



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|                                  |                          |                          |
|----------------------------------|--------------------------|--------------------------|
| <b>Declaration of Conformity</b> | <b>Test Certificates</b> | <b>Shipping Approval</b> |
|----------------------------------|--------------------------|--------------------------|



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[n](#)



ABS



DNV



GL



LRS

|                          |              |
|--------------------------|--------------|
| <b>Shipping Approval</b> | <b>other</b> |
|--------------------------|--------------|



PRS



RINA



RMRS

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#### Further information

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

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

**Industry Mall (Online ordering system)**

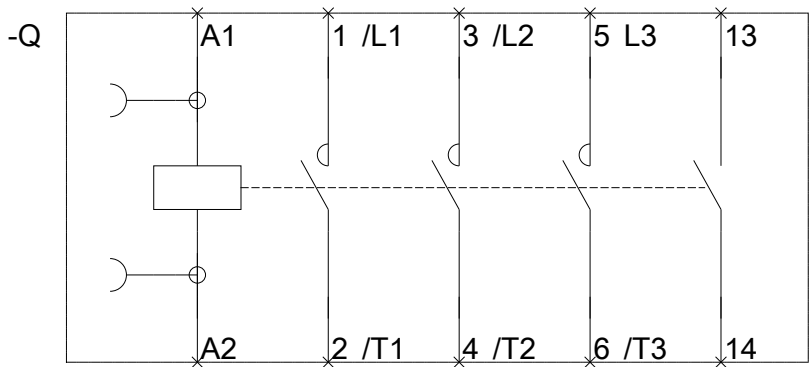
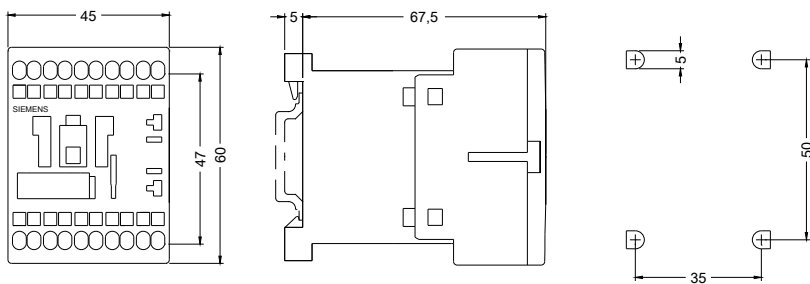
<http://www.siemens.com/industrymall>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10152AF01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10152AF01>



last modified: 29.07.2015