

CONTACTOR, AC-3 4 KW/400 V, 1 NO, DC 60 V, 3-POLE, SIZE S00, SCREW CONNECTION



Figure similar

|                                                                                     |                 |
|-------------------------------------------------------------------------------------|-----------------|
| product brand name                                                                  | SIRIUS          |
| Product designation                                                                 | power contactor |
| General technical data                                                              |                 |
| Size of contactor                                                                   | S00             |
| Degree of pollution                                                                 | 3               |
| Protection class IP                                                                 |                 |
| • on the front                                                                      | IP20            |
| • of the terminal                                                                   | IP20            |
| Mechanical service life (switching cycles)                                          |                 |
| • of 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         |

|                                                                                                                                                                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <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 NO contacts for main contacts</b>                                                                                                                           | 3              |
| <b>Number of NC contacts for main contacts</b>                                                                                                                           | 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> </ul>           | 22 A           |
| <ul style="list-style-type: none"> <li>at AC-1 <ul style="list-style-type: none"> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul>        | 22 A           |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>               | 20 A           |
| <ul style="list-style-type: none"> <li>at AC-3 <ul style="list-style-type: none"> <li>at 400 V rated value</li> </ul> </li> </ul>                                        | 9 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> </ul> </li> </ul>                       | 20 A           |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 110 V rated value</li> </ul> </li> </ul>                                               | 2.1 A          |
| <ul style="list-style-type: none"> <li>with 2 current paths in series at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> </ul> </li> </ul>          | 20 A           |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 110 V rated value</li> </ul> </li> </ul>                                               | 12 A           |
| <ul style="list-style-type: none"> <li>with 3 current paths in series at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> </ul> </li> </ul>          | 20 A           |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 110 V rated value</li> </ul> </li> </ul>                                               | 20 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> </ul> </li> </ul>               | 20 A           |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 110 V rated value</li> </ul> </li> </ul>                                               | 0.15 A         |
| <ul style="list-style-type: none"> <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> </ul> </li> </ul> | 0.35 A         |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 24 V rated value</li> </ul> </li> </ul>                                                | 20 A           |
| <ul style="list-style-type: none"> <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> </ul> </li> </ul> | 20 A           |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>at 24 V rated value</li> </ul> </li> </ul>                                                | 20 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> </ul>                                        | 13 kW          |
| <ul style="list-style-type: none"> <li>at AC-2 at 400 V rated value</li> </ul>                                                                                           | 4 kW           |
| <ul style="list-style-type: none"> <li>at AC-3</li> </ul>                                                                                                                |                |

|                                                                                               |        |
|-----------------------------------------------------------------------------------------------|--------|
| — at 400 V rated value                                                                        | 4 kW   |
| — at 500 V rated value                                                                        | 4.5 kW |
| — at 690 V rated value                                                                        | 5.5 kW |
| <b>Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor</b> | 0.7 W  |

| Control circuit/ Control                                                              |              |
|---------------------------------------------------------------------------------------|--------------|
| <b>Type of voltage of the control supply voltage</b>                                  | DC           |
| <b>Control supply voltage at DC</b>                                                   |              |
| • rated value                                                                         | 60 V         |
| <b>Operating range factor control supply voltage rated value of magnet coil at DC</b> | 0.85 ... 1.1 |
| <b>Closing power of magnet coil at DC</b>                                             | 3.3 W        |
| <b>Holding power of magnet coil at DC</b>                                             | 3.3 W        |

| Auxiliary circuit                                |                                                 |
|--------------------------------------------------|-------------------------------------------------|
| <b>Number of NC contacts</b>                     |                                                 |
| • for auxiliary contacts                         |                                                 |
| — instantaneous contact                          | 0                                               |
| <b>Number of NO contacts</b>                     |                                                 |
| • for auxiliary contacts                         |                                                 |
| — instantaneous contact                          | 1                                               |
| <b>Operating current at AC-12 maximum</b>        | 10 A                                            |
| <b>Operating current at AC-15</b>                |                                                 |
| • at 230 V rated value                           | 6 A                                             |
| • at 400 V rated value                           | 3 A                                             |
| <b>Operating current at DC-12</b>                |                                                 |
| • at 60 V rated value                            | 6 A                                             |
| • at 110 V rated value                           | 3 A                                             |
| • at 220 V rated value                           | 1 A                                             |
| <b>Operating current at DC-13</b>                |                                                 |
| • 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                                           |
| <b>Contact reliability of auxiliary contacts</b> | 1 faulty switching per 100 million (17 V, 1 mA) |

| Short-circuit protection                                        |                  |
|-----------------------------------------------------------------|------------------|
| <b>Design of the fuse link</b>                                  |                  |
| • for short-circuit protection of the main circuit              |                  |
| — with type of coordination 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>                                                                                                                           | 57.5 mm                                                                                |
| <b>Width</b>                                                                                                                            | 45 mm                                                                                  |
| <b>Depth</b>                                                                                                                            | 72 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> </ul>                                                          | screw-type terminals                                                                                         |
| <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>                                         | screw-type terminals                                                                                         |
| <b>Type of connectable conductor cross-sections</b>                                                                                   |                                                                                                              |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> </ul> </li> </ul>      | 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> ) |
| <ul style="list-style-type: none"> <li>— single or multi-stranded</li> </ul>                                                          | 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> ) |
| <ul style="list-style-type: none"> <li>— finely stranded with core end processing</li> </ul>                                          | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                        |
| <ul style="list-style-type: none"> <li>• at AWG conductors for main contacts</li> </ul>                                               | 2x (20 ... 16), 2x (18 ... 14), 1x 12                                                                        |
| <b>Type of connectable conductor cross-sections</b>                                                                                   |                                                                                                              |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> </ul> </li> </ul> | 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> ) |
| <ul style="list-style-type: none"> <li>— finely stranded with core end processing</li> </ul>                                          | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                        |
| <ul style="list-style-type: none"> <li>• at AWG conductors for auxiliary contacts</li> </ul>                                          | 2x (20 ... 16), 2x (18 ... 14), 1x 12                                                                        |

## Certificates/approvals

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



[Baumusterprüfbescheinigung](#)



| Test Certificates | Shipping Approval |
|-------------------|-------------------|
|-------------------|-------------------|

[spezielle Prüfbescheinigungen](#)



| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



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#### 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=3RT1016-1BE41-Z X95>

**Cax online generator**

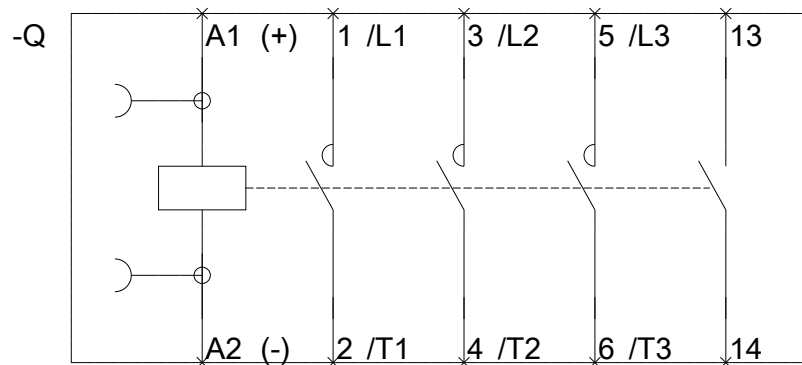
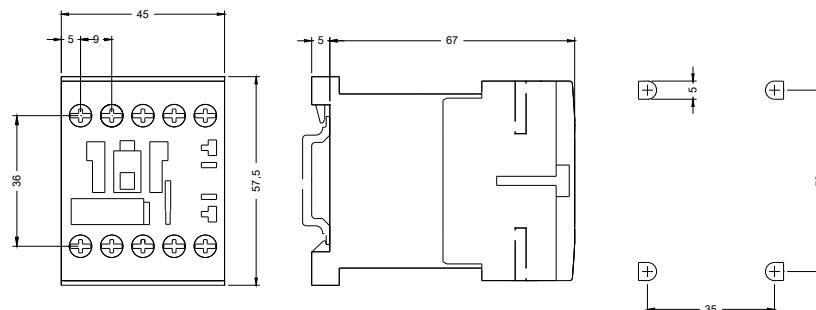
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1016-1BE41-Z X95>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1016-1BE41-Z X95>

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

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