

CONTACTOR, AC-3 15 KW/400 V, DC 24 V, 3-POLE, SIZE S2, SCREW CONNECTION REUSABLE PACKING PACKING = 24 ITEMS



Figure similar

|                                                     |                        |
|-----------------------------------------------------|------------------------|
| product brand name                                  | SIRIUS                 |
| Product designation                                 | power contactor        |
| General technical data                              |                        |
| Size of contactor                                   | S2                     |
| Insulation voltage                                  |                        |
| • rated value                                       | 690 V                  |
| Degree of pollution                                 | 3                      |
| Surge voltage resistance rated value                | 6 kV                   |
| maximum permissible voltage for safe isolation      |                        |
| • between coil and main contacts acc. to EN 60947-1 | 400 V                  |
| Protection class IP                                 |                        |
| • on the front                                      | IP00                   |
| • of the terminal                                   | IP00                   |
| Shock resistance                                    |                        |
| • at rectangular impulse                            |                        |
| — at DC                                             | 10g / 5 ms, 5g / 10 ms |

|                                                                                                                                                                       |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <ul style="list-style-type: none"> <li>• with sine pulse</li> <li>— at DC</li> </ul>                                                                                  | 15g / 5 ms, 8g / 10 ms |
| <b>Mechanical service life (switching cycles)</b>                                                                                                                     |                        |
| <ul style="list-style-type: none"> <li>• of 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>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         |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>                                                                                                    | -55 ... +80 °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>    | 50 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> | 50 A                   |
| <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>                                                              | 45 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>                                 | 32 A                   |
| <ul style="list-style-type: none"> <li>— at 690 V rated value</li> </ul>                                                                                              | 20 A                   |
| <b>Connectable conductor cross-section in main circuit at AC-1</b>                                                                                                    |                        |
| <ul style="list-style-type: none"> <li>• at 60 °C minimum permissible</li> </ul>                                                                                      | 10 mm <sup>2</sup>     |
| <ul style="list-style-type: none"> <li>• at 40 °C minimum permissible</li> </ul>                                                                                      | 16 mm <sup>2</sup>     |
| <b>Operating current for approx. 200000 operating cycles at AC-4</b>                                                                                                  |                        |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>                                                                                              | 15.6 A                 |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                              | 11 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>                | 45 A                   |
| <ul style="list-style-type: none"> <li>— at 110 V rated value</li> </ul>                                                                                              | 4.5 A                  |
| <ul style="list-style-type: none"> <li>• with 2 current paths in series at DC-1</li> </ul>                                                                            |                        |

|                                                                                               |           |
|-----------------------------------------------------------------------------------------------|-----------|
| — at 24 V rated value                                                                         | 45 A      |
| — at 110 V rated value                                                                        | 25 A      |
| • with 3 current paths in series at DC-1                                                      |           |
| — at 24 V rated value                                                                         | 45 A      |
| — at 110 V rated value                                                                        | 45 A      |
| <b>Operating current</b>                                                                      |           |
| • at 1 current path at DC-3 at DC-5                                                           |           |
| — at 24 V rated value                                                                         | 35 A      |
| — at 110 V rated value                                                                        | 2.5 A     |
| • with 2 current paths in series at DC-3 at DC-5                                              |           |
| — at 110 V rated value                                                                        | 25 A      |
| — at 24 V rated value                                                                         | 45 A      |
| • with 3 current paths in series at DC-3 at DC-5                                              |           |
| — at 110 V rated value                                                                        | 45 A      |
| — at 24 V rated value                                                                         | 45 A      |
| <b>Operating power</b>                                                                        |           |
| • at AC-1                                                                                     |           |
| — at 230 V at 60 °C rated value                                                               | 18 kW     |
| — at 400 V rated value                                                                        | 31 kW     |
| — at 690 V rated value                                                                        | 54 kW     |
| — at 690 V at 60 °C rated value                                                               | 54 kW     |
| • at AC-2 at 400 V rated value                                                                | 15 kW     |
| • at AC-3                                                                                     |           |
| — at 230 V rated value                                                                        | 7.5 kW    |
| — at 400 V rated value                                                                        | 15 kW     |
| — at 500 V rated value                                                                        | 18.5 kW   |
| — at 690 V rated value                                                                        | 18.5 kW   |
| <b>Operating power for approx. 200000 operating cycles at AC-4</b>                            |           |
| • at 400 V rated value                                                                        | 8.2 kW    |
| • at 690 V rated value                                                                        | 10 kW     |
| <b>Thermal short-time current limited to 10 s</b>                                             |           |
|                                                                                               | 320 A     |
| <b>Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor</b> |           |
|                                                                                               | 1.8 W     |
| <b>No-load switching frequency</b>                                                            |           |
| • at DC                                                                                       | 1 500 1/h |
| <b>Operating frequency</b>                                                                    |           |
| • at AC-1 maximum                                                                             | 1 200 1/h |
| • at AC-2 maximum                                                                             | 750 1/h   |
| • at AC-3 maximum                                                                             | 1 000 1/h |
| • at AC-4 maximum                                                                             | 250 1/h   |

| Control circuit/ Control                                                       |              |
|--------------------------------------------------------------------------------|--------------|
| Type of voltage of the control supply voltage                                  | DC           |
| Control supply voltage at DC                                                   |              |
| • rated value                                                                  | 24 V         |
| Operating range factor control supply voltage rated value of magnet coil at DC | 0.8 ... 1.1  |
| Closing power of magnet coil at DC                                             | 13.3 W       |
| Holding power of magnet coil at DC                                             | 13.3 W       |
| Closing delay                                                                  |              |
| • at DC                                                                        | 50 ... 95 ms |
| Opening delay                                                                  |              |
| • at DC                                                                        | 20 ... 30 ms |
| Arcing time                                                                    | 10 ... 15 ms |

| Auxiliary circuit                         |                                                 |
|-------------------------------------------|-------------------------------------------------|
| Number of NC contacts                     |                                                 |
| • for auxiliary contacts                  |                                                 |
| — instantaneous contact                   | 0                                               |
| Number of NO contacts                     |                                                 |
| • for auxiliary contacts                  |                                                 |
| — instantaneous contact                   | 0                                               |
| 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 auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

| UL/CSA ratings                                       |             |
|------------------------------------------------------|-------------|
| Contact rating of auxiliary contacts according to UL | A600 / Q600 |

| Short-circuit protection                           |                   |
|----------------------------------------------------|-------------------|
| Design of the fuse link                            |                   |
| • for short-circuit protection of the main circuit |                   |
| — with type of coordination 1 required             | fuse gL/gG: 125 A |
| — with type of assignment 2 required               | fuse gL/gG: 63 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 |
| • Side-by-side mounting               | Yes                                                                                    |
| <b>Height</b>                         | 112 mm                                                                                 |
| <b>Width</b>                          | 55 mm                                                                                  |
| <b>Depth</b>                          | 130 mm                                                                                 |
| <b>Required spacing</b>               |                                                                                        |
| • for grounded parts<br>— at the side | 6 mm                                                                                   |

## Connections/Terminals

|                                                     |                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Type of electrical connection</b>                |                                                                                                              |
| • for main current circuit                          | screw-type terminals                                                                                         |
| • for auxiliary and control current circuit         | screw-type terminals                                                                                         |
| <b>Type of connectable conductor cross-sections</b> |                                                                                                              |
| • for main contacts                                 |                                                                                                              |
| — solid                                             | 2x (0.75 ... 16 mm <sup>2</sup> )                                                                            |
| — stranded                                          | 2x (0.75 ... 25 mm <sup>2</sup> )                                                                            |
| — single or multi-stranded                          | 2x (0,75 ... 16 mm <sup>2</sup> )                                                                            |
| — finely stranded with core end processing          | 2x (0.75 ... 16 mm <sup>2</sup> )                                                                            |
| — finely stranded without core end processing       | 2x (0.75 ... 16 mm <sup>2</sup> )                                                                            |
| • at AWG conductors for main contacts               | 2x (18 ... 2)                                                                                                |
| <b>Type of connectable conductor cross-sections</b> |                                                                                                              |
| • for auxiliary contacts                            |                                                                                                              |
| — solid                                             | 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> ) |
| — finely stranded with core end processing          | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                        |
| • at AWG conductors for auxiliary contacts          | 2x (20 ... 16), 2x (18 ... 14), 1x 12                                                                        |

## Certificates/approvals

| General Product Approval                                                                 |                                                                                          | Declaration of Conformity                                                                     | Test Certificates                                 |                                               |                         |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------------------|
| <br>CSA | <br>EAC | <br>EG-Konf. | <a href="#">Typprüfbescheinigung/Werkszeugnis</a> | <a href="#">spezielle Prüfbescheinigungen</a> | <a href="#">sonstig</a> |

| Shipping Approval                                                                        |                                                                                          |                                                                                         |                                                                                          |                                                                                             |                                                                                             |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>ABS | <br>DNV | <br>GL | <br>LRS | <br>RINA | <br>RMRS |

| other             |               |         |
|-------------------|---------------|---------|
| Umweltbestätigung | Bestätigungen | sonstig |

#### 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=3RT1034-1BB40-Z X95>

##### Cax online generator

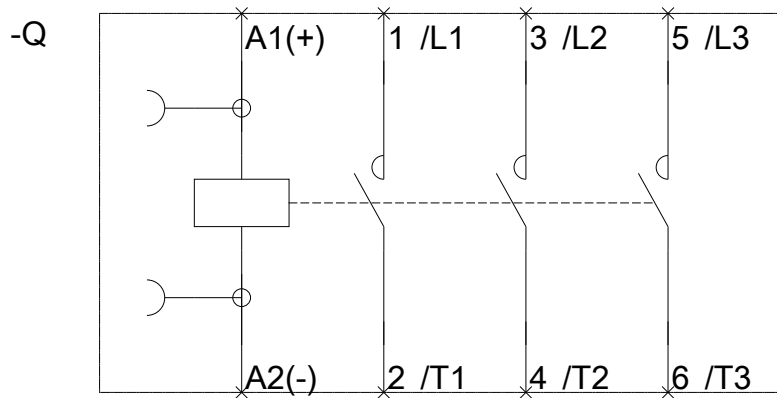
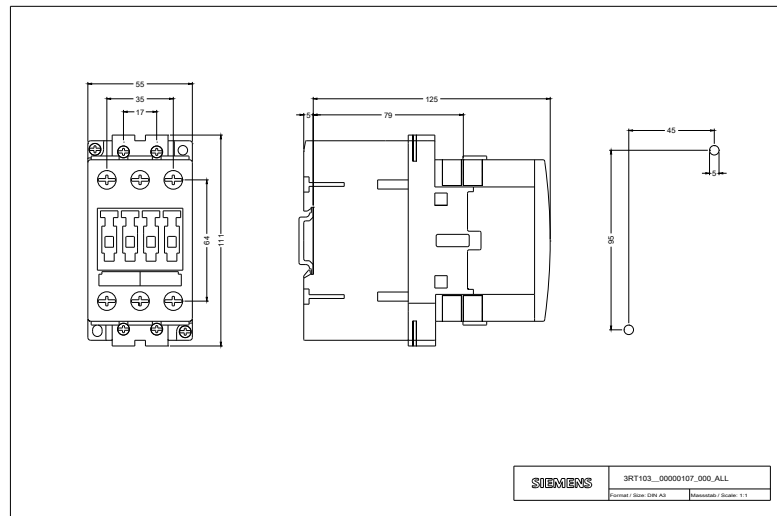
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1034-1BB40-Z X95>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1034-1BB40-Z X95>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1034-1BB40-Z X95&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1034-1BB40-Z X95&lang=en)



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