

COUPL.RELAY 4KW 1NO DC SCREW MULTI-UNIT PACK  
QUANTITY = 42 UNITS



|                                                         |                 |
|---------------------------------------------------------|-----------------|
| 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      |
| Ambient conditions                                      |                 |
| Installation altitude at height above sea level maximum | 2 000 m         |
| Ambient temperature                                     |                 |
| • during operation                                      | -25 ... +60 °C  |
| Main circuit                                            |                 |
| Number of poles for main current circuit                | 3               |
| Number of NO contacts for main contacts                 | 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> <li>• at AC-1 <ul style="list-style-type: none"> <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> </ul> </li> </ul>                                                                         | 22 A<br><br>22 A<br>20 A<br><br>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> <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>                         | 20 A<br>2.1 A<br><br>20 A<br>12 A<br><br>20 A<br>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> <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> | 20 A<br>0.15 A<br><br>0.35 A<br>20 A<br><br>20 A<br>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> <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>                                                                                                                                                                                             | 13 kW<br>4 kW<br><br>4 kW<br>4.5 kW<br>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                                                    |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          |

|                                                                                |              |
|--------------------------------------------------------------------------------|--------------|
| 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 | 0.7 ... 1.25 |
| Closing power of magnet coil at DC                                             | 2.3 W        |
| Holding power of magnet coil at DC                                             | 2.3 W        |

#### 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 auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

#### 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: 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

|                         |                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------|
| Mounting type           | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| • Side-by-side mounting | Yes                                                                                    |
| Height                  | 57.5 mm                                                                                |
| Width                   | 45 mm                                                                                  |

|                                                                                                                                                          |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Depth                                                                                                                                                    | 72 mm |
| Required spacing <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

|                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of electrical connection <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                                                                                                                                                                                                                                                                                                   |
| Type of connectable conductor cross-sections <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>• at AWG conductors for main contacts</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> )<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>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 1x 12 |
| Type of connectable conductor cross-sections <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>• at AWG conductors for auxiliary contacts</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> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 1x 12                                                                                                                 |

#### Certificates/approvals

| General Product Approval                                                                                                                                                                                                                                                                                                                                            | Functional Safety/Safety of Machinery      | Declaration of Conformity                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------|
| <br>CCC <br>CSA <br>UL  | <a href="#">Baumusterprüfbescheinigung</a> | <br>EG-Konf. |

| Test Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Shipping Approval |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">spezielle Prüfbescheinigungen</a><br><br>ABS <br>DNV <br>GL <br>LRS <br>PRS |                   |

| Shipping Approval                                                                                                                                                                       | other                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <br>RINA <br>RMRS | <a href="#">Umweltbestätigung</a> <a href="#">sonstig</a> <a href="#">Bestätigungen</a> |

## 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=3RT1016-1HB41-Z W97>

### Cax online generator

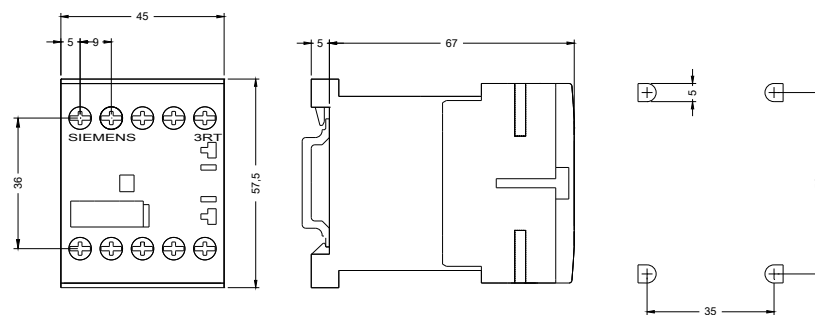
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1016-1HB41-Z W97>

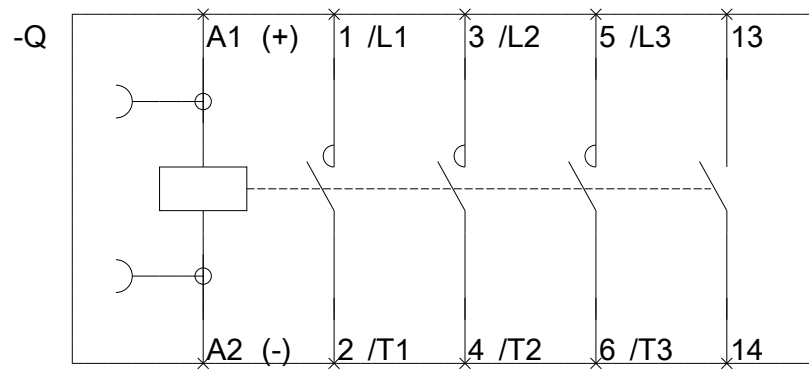
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1016-1HB41-Z W97>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1016-1HB41-Z W97&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1016-1HB41-Z W97&lang=en)





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