



COUPLING RELAY, AC-3 5,5KW/400 V, 1 NO,  
DC 24 V, 0.7...1.25\*US, W.DIODE 3-POLE,  
SIZE S00, SCREW CONNECTION

| General technical data:                                      |    |             |
|--------------------------------------------------------------|----|-------------|
| product brand name                                           |    | SIRIUS      |
| Size of the contactor                                        |    | S00         |
| Protection class IP / on the front                           |    | IP20        |
| Degree of pollution                                          |    | 3           |
| Installation altitude / at a height over sea level / maximum | m  | 2,000       |
| Ambient temperature / during operating                       | °C | -25 ... +60 |
| Mechanical operating cycles as operating time                |    |             |
| • of the contactor / typical                                 |    | 30,000,000  |

| Main circuit:                                |   |     |
|----------------------------------------------|---|-----|
| Number of NC contacts / for main contacts    |   | 0   |
| Number of NO contacts / for main contacts    |   | 3   |
| Operating current                            |   |     |
| • at AC-1 / at 400 V                         |   |     |
| • at 40 °C ambient temperature / rated value | A | 22  |
| • at AC-3 / at 400 V / rated value           | A | 12  |
| • at AC-4 / at 400 V / rated value           | A | 8.5 |
| • with 1 current path / at DC-1              |   |     |
| • at 24 V / rated value                      | A | 20  |
| • at 110 V / rated value                     | A | 2.1 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|
| <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> <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> <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 24 V / rated value</li> <li>• at 110 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 24 V / rated value</li> <li>• at 110 V / rated value</li> </ul> </li> </ul> | A  | 20    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 12    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 20    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 20    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 20    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 0.15  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 20    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 0.35  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 20    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A  | 20    |
| <b>Service power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |       |
| • at AC-2 / at 400 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | kW | 5.5   |
| • at AC-3 / at 400 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | kW | 5.5   |
| • at AC-4 / at 400 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | W  | 4,000 |

| Control circuit:                                                               |   |              |
|--------------------------------------------------------------------------------|---|--------------|
| Design of the surge suppressor                                                 |   | with diode   |
| Voltage type / of control feed voltage                                         |   | DC           |
| Operating range factor control supply voltage rated value / of the magnet coil |   |              |
| • for DC                                                                       |   | 0.85 ... 1.1 |
| Pull-in power / of the solenoid / for DC                                       | W | 2.3          |
| Holding power / of the solenoid / for DC                                       | W | 2.3          |

| Auxiliary circuit:                                                       |  |                                                 |
|--------------------------------------------------------------------------|--|-------------------------------------------------|
| Contact reliability / of the auxiliary contacts                          |  | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contacts / instantaneous switching |  | 0                                               |
| Number of NO contacts / for auxiliary contacts / instantaneous switching |  | 1                                               |

| Short-circuit:                                                    |  |                  |
|-------------------------------------------------------------------|--|------------------|
| Design of the fuse link                                           |  |                  |
| • for short-circuit protection of the auxiliary switch / required |  | fuse gL/gG: 10 A |
| • for short-circuit protection of the main circuit                |  |                  |
| • with type of assignment 1 / required                            |  | fuse gL/gG: 35 A |
| • at type of coordination 2 / required                            |  | fuse gL/gG: 20 A |

**Installation/mounting/dimensions:**

|                                                               |    |                                                                                        |
|---------------------------------------------------------------|----|----------------------------------------------------------------------------------------|
| <b>Mounting type</b>                                          |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <b>series installation</b>                                    |    | Yes                                                                                    |
| <b>Width</b>                                                  | mm | 45                                                                                     |
| <b>Height</b>                                                 | mm | 57.5                                                                                   |
| <b>Depth</b>                                                  | mm | 72                                                                                     |
| <b>Distance, to be maintained, to earthed part / sideways</b> | mm | 6                                                                                      |

**Connection type:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Design of the electrical connection</b> <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                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Type of the 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>• finely stranded<ul style="list-style-type: none"><li>• with conductor end processing</li></ul></li></ul></li><li>• for AWG conductors / for main contacts</li><li>• for auxiliary contacts<ul style="list-style-type: none"><li>• solid</li><li>• finely stranded<ul style="list-style-type: none"><li>• with conductor end processing</li></ul></li></ul></li><li>• for 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><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<br><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><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



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

## Test Certificates

[Special Test  
Certificate](#)

## Shipping Approval



ABS



DNV



GL



LRS



PRS



RINA

## Shipping Approval

other



RMRS

[Confirmation](#)

[other](#)

[Environmental  
Confirmations](#)

## Further information:

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

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

### Industry Mall (Online ordering system)

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

### Cax online generator:

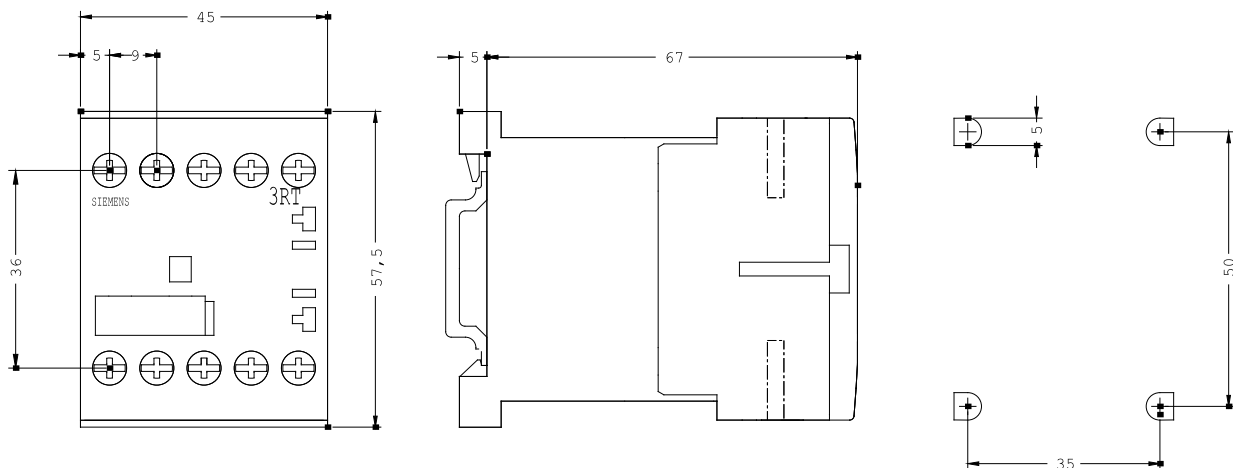
<http://www.siemens.com/cax>

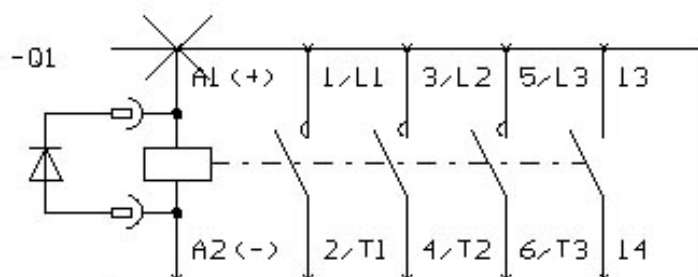
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1017-1JB41/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1017-1JB41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1017-1JB41)





last change:

Aug 4, 2014