

CONTACTOR RELAY, 2NO+2NC, 500 V AC, 50/60 HZ SCREW CONNECTION, SIZE S00



Figure similar

|                                                                                     |                           |
|-------------------------------------------------------------------------------------|---------------------------|
| product brandname                                                                   | SIRIUS                    |
| Product designation                                                                 | contactor relay           |
| General technical data                                                              |                           |
| Size of contactor                                                                   | S00                       |
| Product extension                                                                   |                           |
| • Auxiliary switch                                                                  | Yes                       |
| Insulation voltage                                                                  |                           |
| • with degree of pollution 3 rated value                                            | 690 V                     |
| Degree of pollution                                                                 | 3                         |
| Surge voltage resistance rated value                                                | 6 kV                      |
| Protection class IP                                                                 |                           |
| • on the front                                                                      | IP20                      |
| Shock resistance                                                                    | 10g / 5 ms and 5g / 10 ms |
| 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                 |

|                                                                                                                |            |
|----------------------------------------------------------------------------------------------------------------|------------|
| <ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block typical</li> </ul> | 10 000 000 |
| <b>Equipment marking</b>                                                                                       |            |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>                                     | K          |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>                                     | K          |

### Ambient conditions

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| <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 |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul> | -55 ... +80 °C |

### Control circuit/ Control

|                                                                                       |              |
|---------------------------------------------------------------------------------------|--------------|
| <b>Type of voltage of the control supply voltage</b>                                  | AC           |
| <b>Control supply voltage at AC</b>                                                   |              |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> </ul>              | 500 V        |
| <ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>              | 500 V        |
| <b>Control supply voltage frequency 1 rated value</b>                                 | 50 Hz        |
| <b>Control supply voltage frequency 2 rated value</b>                                 | 60 Hz        |
| <b>Operating range factor control supply voltage rated value of magnet coil at AC</b> |              |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                          | 0.8 ... 1.1  |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                          | 0.85 ... 1.1 |
| <b>Apparent pick-up power of magnet coil at AC</b>                                    | 27 V·A       |
| <b>Inductive power factor with closing power of the coil</b>                          | 0.8          |
| <b>Apparent holding power of magnet coil at AC</b>                                    | 4.6 V·A      |
| <b>Inductive power factor with the holding power of the coil</b>                      | 0.27         |

### Auxiliary circuit

|                                                                                 |   |
|---------------------------------------------------------------------------------|---|
| <b>Number of NC contacts</b>                                                    |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>      | 2 |
| <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul>       | 2 |
| <ul style="list-style-type: none"> <li>— delayed switching</li> </ul>           | 0 |
| <ul style="list-style-type: none"> <li>— lagging switching</li> </ul>           | 0 |
| <ul style="list-style-type: none"> <li>— make-before-break switching</li> </ul> | 0 |
| <b>Number of NO contacts</b>                                                    |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>      | 2 |
| <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul>       | 2 |
| <ul style="list-style-type: none"> <li>— delayed switching</li> </ul>           | 0 |
| <ul style="list-style-type: none"> <li>— leading contact</li> </ul>             | 0 |
| <ul style="list-style-type: none"> <li>— make-before-break switching</li> </ul> | 0 |
| <b>Number of CO contacts</b>                                                    |   |

|                                                                |                                                 |
|----------------------------------------------------------------|-------------------------------------------------|
| • for auxiliary contacts                                       | 0                                               |
| • of auxiliary contacts instantaneous contact                  | 0                                               |
| <b>Identification number and letter for switching elements</b> | 22 E                                            |
| Operating current at AC-12 maximum                             | 10 A                                            |
| <b>Operating current at AC-15</b>                              |                                                 |
| • at 230 V rated value                                         | 6 A                                             |
| • at 400 V rated value                                         | 3 A                                             |
| • at 500 V rated value                                         | 2 A                                             |
| • at 690 V rated value                                         | 1 A                                             |
| <b>Operating current at 1 current path at DC-12</b>            |                                                 |
| • at 24 V rated value                                          | 10 A                                            |
| • at 110 V rated value                                         | 3 A                                             |
| • at 220 V rated value                                         | 1 A                                             |
| <b>Operating current at 1 current path at DC-13</b>            |                                                 |
| • at 24 V rated value                                          | 10 A                                            |
| • at 110 V rated value                                         | 1 A                                             |
| • at 220 V rated value                                         | 0.27 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 auxiliary switch required | fuse gL/gG: 10 A |

#### Installation/ mounting/ dimensions

|                                               |                                                                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting position</b>                      | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| <b>Mounting type</b>                          | screw and snap-on mounting                                                                                                           |
| <b>Height</b>                                 | 57.5 mm                                                                                                                              |
| <b>Width</b>                                  | 45 mm                                                                                                                                |
| <b>Depth</b>                                  | 72 mm                                                                                                                                |
| <b>Required spacing</b>                       |                                                                                                                                      |
| • with side-by-side mounting<br>— at the side | 0 mm                                                                                                                                 |

#### Connections/Terminals

|                                                     |                                                       |
|-----------------------------------------------------|-------------------------------------------------------|
| <b>Type of electrical connection</b>                |                                                       |
| • for auxiliary and control current circuit         | screw-type terminals                                  |
| <b>Type of connectable conductor cross-sections</b> |                                                       |
| • for auxiliary contacts<br>— solid                 | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² |
| — finely stranded with core end processing          | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)           |
| • at AWG conductors for auxiliary contacts          | 2x (20 ... 16), 2x (18 ... 14), 1x 12                 |

## Safety related data

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| <b>B10 value</b>                                                          |                          |
| • with high demand rate acc. to SN 31920                                  | 1 000 000; With 0.3 x Ie |
| <b>Proportion of dangerous failures</b>                                   |                          |
| • with low demand rate acc. to SN 31920                                   | 40 %                     |
| • with high demand rate acc. to SN 31920                                  | 75 %                     |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b> | 20 y                     |

## Certificates/approvals

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

| Test Certificates                                 | Shipping Approval                           |                                                                                    |                                                                                    |                                                                                      |
|---------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <a href="#">Typprüfbescheinigung/Werkszeugnis</a> | <a href="#">spezielle Prüfbescheinigung</a> |  |  |  |
|                                                   |                                             | ABS                                                                                | BUREAU VERITAS                                                                     | DNV                                                                                  |
|                                                   |                                             |                                                                                    |                                                                                    |  |
|                                                   |                                             |                                                                                    |                                                                                    | GL                                                                                   |

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

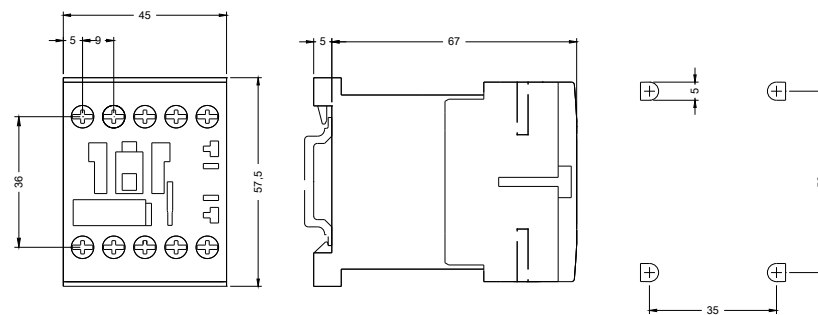
| other                         |
|-------------------------------|
| <a href="#">Bestätigungen</a> |

## 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=3RH1122-1AS00>

**Cax online generator**  
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1122-1AS00>





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