

CONTACTOR RELAY, 4NO, 24V DC, CAGE CLAMP TERMINAL,  
SIZE S00 MULTI-UNIT PACK, 1 PACK = 42 UNITS

|                     |                 |
|---------------------|-----------------|
| product brand name  | 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                 |
| • of the contactor with added auxiliary switch block typical                        | 10 000 000                |
| Equipment marking                                                                   |                           |
| • acc. to DIN EN 61346-2                                                            | K                         |
| • acc. to DIN EN 81346-2                                                            | K                         |

### Ambient conditions

|                                                         |                |
|---------------------------------------------------------|----------------|
| Installation altitude at height above sea level maximum | 2 000 m        |
| Ambient temperature                                     |                |
| • during operation                                      | -25 ... +60 °C |
| • during storage                                        | -55 ... +80 °C |
| • during transport                                      | -55 ... +80 °C |

### 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                                             | 3.2 W       |

|                                                                 |                                                 |
|-----------------------------------------------------------------|-------------------------------------------------|
| <b>Holding power of magnet coil at DC</b>                       | 3.2 W                                           |
| <b>Auxiliary circuit</b>                                        |                                                 |
| <b>Number of NC contacts</b>                                    |                                                 |
| • for auxiliary contacts                                        | 0                                               |
| — instantaneous contact                                         | 0                                               |
| — delayed switching                                             | 0                                               |
| — lagging switching                                             | 0                                               |
| — make-before-break switching                                   | 0                                               |
| <b>Number of NO contacts</b>                                    |                                                 |
| • for auxiliary contacts                                        | 4                                               |
| — instantaneous contact                                         | 4                                               |
| — delayed switching                                             | 0                                               |
| — leading contact                                               | 0                                               |
| — make-before-break switching                                   | 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>  | 40 E                                            |
| <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                                             |
| • 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) |
| <b>Short-circuit protection</b>                                 |                                                 |
| <b>Design of the fuse link</b>                                  |                                                 |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A                                |
| <b>Installation/ mounting/ dimensions</b>                       |                                                 |

|                                                                                                       |                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <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>                                                                                         | 60 mm                                                                                                                                |
| <b>Width</b>                                                                                          | 45 mm                                                                                                                                |
| <b>Depth</b>                                                                                          | 73 mm                                                                                                                                |
| <b>Required spacing</b>                                                                               |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting</li> <li>— at the side</li> </ul> | 0 mm                                                                                                                                 |

#### Connections/Terminals

|                                                                                                                                                                                                                                                            |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Type of electrical connection</b>                                                                                                                                                                                                                       |                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                                              | Cage Clamp terminals                                                                                                             |
| <b>Type of connectable conductor cross-sections</b>                                                                                                                                                                                                        |                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— solid</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>• at AWG conductors for auxiliary contacts</li> </ul> | 2x (0.25 ... 2.5 mm <sup>2</sup> )<br>2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (0.25 ... 2.5 mm <sup>2</sup> )<br>2x (24 ... 14) |

#### Safety related data

|                                                                                                                                             |                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>B10 value</b>                                                                                                                            |                                      |
| <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>                                                  | 1 000 000; With 0.3 x I <sub>e</sub> |
| <b>Proportion of dangerous failures</b>                                                                                                     |                                      |
| <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> <li>• with high demand rate acc. to SN 31920</li> </ul> | 40 %<br>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 |
|--------------------------|---------------------------------------|---------------------------|
|--------------------------|---------------------------------------|---------------------------|



[Baumusterbescheinigung](#)



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

[Typprüfbescheinigung/Werkzeugzeugnis](#)

[spezielle Prüfbescheinigung](#)



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



[Umweltbestätigung](#)

[sonstig](#)

| other |
|-------|
|-------|

[Bestätigungen](#)

| 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=3RH1140-2BB40-Z W97>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1140-2BB40-Z W97>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1140-2BB40-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=3RH1140-2BB40-Z W97&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1140-2BB40-Z W97&lang=en)

last modified:

09/20/2016