

CONTACTOR RELAY, 4NO+4NC, AC 230 V, 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                         | No                        |
| 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                     | 10 000 000                |
| Equipment marking                          |                           |
| • acc. to DIN EN 61346-2                   | K                         |

## Ambient conditions

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

## Control circuit/ Control

|                                                                                       |              |
|---------------------------------------------------------------------------------------|--------------|
| <b>Type of voltage of the control supply voltage</b>                                  | AC           |
| <b>Control supply voltage at AC</b>                                                   |              |
| • at 50 Hz rated value                                                                | 230 V        |
| • at 60 Hz rated value                                                                | 230 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> |              |
| • at 50 Hz                                                                            | 0.8 ... 1.1  |
| • at 60 Hz                                                                            | 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>                                   |      |
| • for auxiliary contacts                                       | 4    |
| — instantaneous contact                                        | 4    |
| — 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> | 44 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>                                  | 111 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 I <sub>e</sub> |

|                                                                    |      |
|--------------------------------------------------------------------|------|
| Proportion of dangerous failures                                   |      |
| • with low demand rate acc. to SN 31920                            | 40 % |
| • with high demand rate acc. to SN 31920                           | 75 % |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y |

#### Certificates/approvals

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

| Test Certificates                                 | Shipping Approval                                                                           |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|
| <a href="#">spezielle Prüfbescheinigungen</a>     | <br>ABS    |
| <a href="#">Typprüfbescheinigung/Werkszeugnis</a> | <br>GL     |
|                                                   | <br>RINA |
|                                                   | <br>RMRS |
| <b>other</b>                                      |                                                                                             |
| <a href="#">sonstig</a>                           | <a href="#">Umweltbestätigung</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=3RH1344-1AP00>

##### Cax online generator

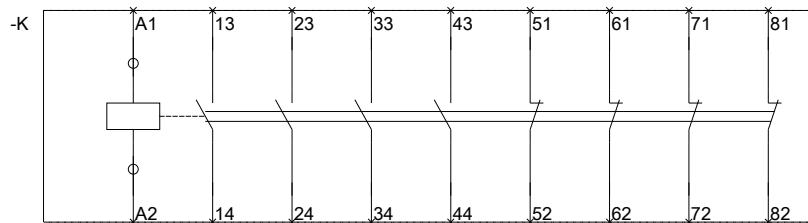
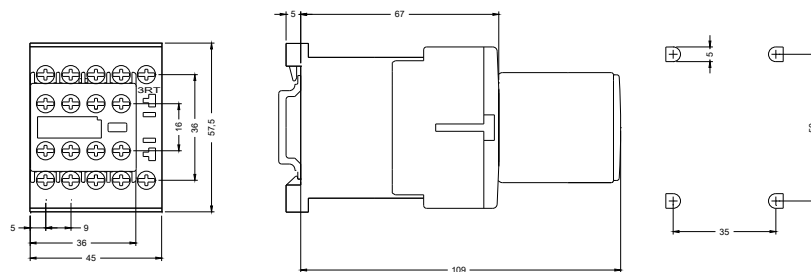
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1344-1AP00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1344-1AP00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1344-1AP00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1344-1AP00&lang=en)



last modified:

10/19/2016