

COUPLING RELAY, 3NO+1NC, DC 24 V, 0.7...1.25\*US, W.DIODE  
CAGE CLAMP CONNECTION, SIZE S00



|                                            |                           |
|--------------------------------------------|---------------------------|
| 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                     | 30 000 000                |
| 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 | 0.7 ... 1.25 |
| Design of the surge suppressor                                                 | with diode   |
| 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                                | 1    |
| — instantaneous contact                                 | 1    |
| — delayed switching                                     | 0    |
| — lagging switching                                     | 0    |
| — make-before-break switching                           | 0    |
| Number of NO contacts                                   |      |
| • for auxiliary contacts                                | 3    |
| — instantaneous contact                                 | 3    |
| — delayed switching                                     | 0    |
| — leading contact                                       | 0    |
| — make-before-break switching                           | 0    |
| Number of CO contacts                                   |      |
| • for auxiliary contacts                                | 0    |
| • of auxiliary contacts instantaneous contact           | 0    |
| Identification number and letter for switching elements | 31 E |
| 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  |
| • at 500 V rated value                                  | 2 A  |
| • at 690 V rated value                                  | 1 A  |
| Operating current at 1 current path at DC-12            |      |
| • at 24 V rated value                                   | 10 A |

|                                                                                                                                         |                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> </ul>                                | 3 A<br>1 A                                      |
| <b>Operating current at 1 current path at DC-13</b>                                                                                     |                                                 |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> </ul> | 10 A<br>1 A<br>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>                                                                                    |                  |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> | 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>                                                                                         | 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 mm²)<br>2x (0.25 ... 1.5 mm²)<br>2x (0.25 ... 2.5 mm²)<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/Werkszeugnis](#)

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



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| Further information |
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**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=3RH1131-2JB40>

**Cax online generator**

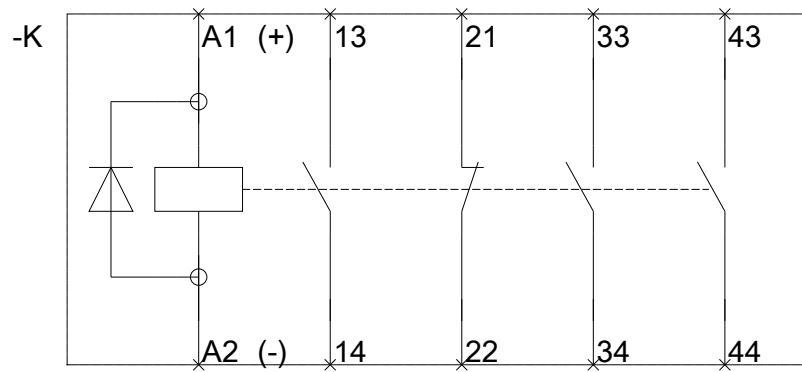
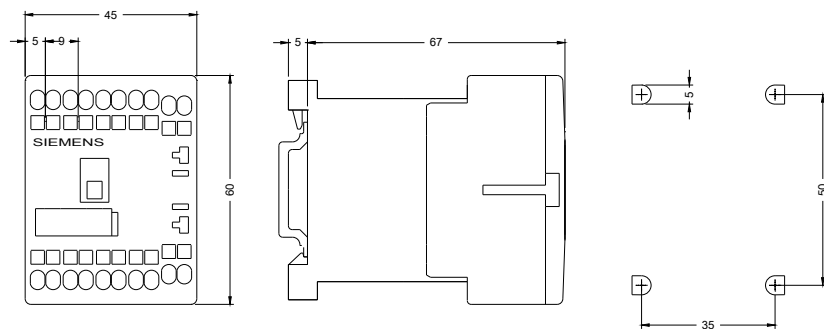
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**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1131-2JB40>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1131-2JB40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1131-2JB40&lang=en)



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