

COUPLING RELAY, AC-3, 4KW/400V, 1NC, 24V DC, 0.7...1.25\*US  
W/VARISTOR, 3-POLE, SIZE S00, CAGE CLAMP TERMINAL  
MULTI-UNIT PACK 1 PACK = 144 UNITS

|                     |                 |
|---------------------|-----------------|
| product brand name  | SIRIUS          |
| Product designation | power contactor |

### General technical data

|                                            |            |
|--------------------------------------------|------------|
| Size of contactor                          | S00        |
| Degree of pollution                        | 3          |
| Protection class IP                        |            |
| • on the front                             | IP20       |
| • of the terminal                          | IP20       |
| Mechanical service life (switching cycles) |            |
| • of contactor typical                     | 30 000 000 |

### Ambient conditions

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

### Main circuit

|                                                        |       |
|--------------------------------------------------------|-------|
| Number of poles for main current circuit               | 3     |
| Number of NO contacts for main contacts                | 3     |
| Number of NC contacts for main contacts                | 0     |
| Operating current                                      |       |
| • at AC-1 at 400 V                                     |       |
| — at ambient temperature 40 °C rated value             | 22 A  |
| • at AC-1                                              |       |
| — up to 690 V at ambient temperature 40 °C rated value | 22 A  |
| — up to 690 V at ambient temperature 60 °C rated value | 20 A  |
| • at AC-3                                              |       |
| — at 400 V rated value                                 | 9 A   |
| Operating current                                      |       |
| • at 1 current path at DC-1                            |       |
| — at 24 V rated value                                  | 20 A  |
| — at 110 V rated value                                 | 2.1 A |
| • with 2 current paths in series at DC-1               |       |

|                                                                                               |        |
|-----------------------------------------------------------------------------------------------|--------|
| — at 24 V rated value                                                                         | 20 A   |
| — at 110 V rated value                                                                        | 12 A   |
| • with 3 current paths in series at DC-1                                                      |        |
| — at 24 V rated value                                                                         | 20 A   |
| — at 110 V rated value                                                                        | 20 A   |
| <b>Operating current</b>                                                                      |        |
| • at 1 current path at DC-3 at DC-5                                                           |        |
| — at 24 V rated value                                                                         | 20 A   |
| — at 110 V rated value                                                                        | 0.15 A |
| • with 2 current paths in series at DC-3 at DC-5                                              |        |
| — at 110 V rated value                                                                        | 0.35 A |
| — at 24 V rated value                                                                         | 20 A   |
| • with 3 current paths in series at DC-3 at DC-5                                              |        |
| — at 110 V rated value                                                                        | 20 A   |
| — at 24 V rated value                                                                         | 20 A   |
| <b>Operating power</b>                                                                        |        |
| • at AC-1                                                                                     |        |
| — at 400 V rated value                                                                        | 13 kW  |
| • at AC-2 at 400 V rated value                                                                | 4 kW   |
| • at AC-3                                                                                     |        |
| — at 400 V rated value                                                                        | 4 kW   |
| — at 500 V rated value                                                                        | 4.5 kW |
| — at 690 V rated value                                                                        | 5.5 kW |
| <b>Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor</b> | 0.7 W  |

#### Control circuit/ Control

|                                                                                       |               |
|---------------------------------------------------------------------------------------|---------------|
| <b>Type of voltage of the control supply voltage</b>                                  | DC            |
| <b>Control supply voltage at DC</b>                                                   |               |
| • rated value                                                                         | 24 V          |
| <b>Operating range factor control supply voltage rated value of magnet coil at DC</b> | 0.7 ... 1.25  |
| <b>Design of the surge suppressor</b>                                                 | with varistor |
| <b>Closing power of magnet coil at DC</b>                                             | 2.3 W         |
| <b>Holding power of magnet coil at DC</b>                                             | 2.3 W         |

#### Auxiliary circuit

|                              |   |
|------------------------------|---|
| <b>Number of NC contacts</b> |   |
| • for auxiliary contacts     |   |
| — instantaneous contact      | 1 |
| <b>Number of NO contacts</b> |   |
| • for auxiliary contacts     |   |
| — instantaneous contact      | 0 |

|                                                  |                                                 |
|--------------------------------------------------|-------------------------------------------------|
| 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                                             |
| <b>Operating current at DC-12</b>                |                                                 |
| • at 60 V rated value                            | 6 A                                             |
| • at 110 V rated value                           | 3 A                                             |
| • at 220 V rated value                           | 1 A                                             |
| <b>Operating current at DC-13</b>                |                                                 |
| • at 24 V rated value                            | 10 A                                            |
| • at 60 V rated value                            | 2 A                                             |
| • at 110 V rated value                           | 1 A                                             |
| • at 220 V rated value                           | 0.3 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 main circuit              |                  |
| — with type of coordination 1 required                          | fuse gL/gG: 35 A |
| — with type of assignment 2 required                            | fuse gL/gG: 20 A |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |

### Installation/ mounting/ dimensions

|                         |                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------|
| <b>Mounting type</b>    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| • Side-by-side mounting | Yes                                                                                    |
| <b>Height</b>           | 60 mm                                                                                  |
| <b>Width</b>            | 45 mm                                                                                  |
| <b>Depth</b>            | 73 mm                                                                                  |
| <b>Required spacing</b> |                                                                                        |
| • for grounded parts    |                                                                                        |
| — at the side           | 6 mm                                                                                   |

### Connections/Terminals

|                                                     |                                    |
|-----------------------------------------------------|------------------------------------|
| <b>Type of electrical connection</b>                |                                    |
| • for main current circuit                          | spring-loaded terminals            |
| • for auxiliary and control current circuit         | spring-loaded terminals            |
| <b>Type of connectable conductor cross-sections</b> |                                    |
| • for main contacts                                 |                                    |
| — solid                                             | 2x (0.25 ... 2.5 mm <sup>2</sup> ) |
| — single or multi-stranded                          | 2x (0,25 ... 2,5 mm <sup>2</sup> ) |
| — finely stranded with core end processing          | 2x (0.25 ... 1.5 mm <sup>2</sup> ) |

|                                                     |                                    |
|-----------------------------------------------------|------------------------------------|
| — finely stranded without core end processing       | 2x (0.25 ... 2.5 mm <sup>2</sup> ) |
| • at AWG conductors for main contacts               | 2x (24 ... 14)                     |
| <b>Type of connectable conductor cross-sections</b> |                                    |
| • for auxiliary contacts                            |                                    |
| — solid                                             | 2x (0.25 ... 2.5 mm <sup>2</sup> ) |
| — finely stranded with core end processing          | 2x (0.25 ... 1.5 mm <sup>2</sup> ) |
| — finely stranded without core end processing       | 2x (0.25 ... 2.5 mm <sup>2</sup> ) |
| • at AWG conductors for auxiliary contacts          | 2x (24 ... 14)                     |

#### Certificates/approvals

| General Product Approval                                                                 | Functional Safety/Safety of Machinery                                                    | Declaration of Conformity                                                                | Test Certificates                                                                                                                              |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>CCC | <br>CSA | <br>EAC | <a href="#">Baumusterprüfbescheinigung</a><br><br>EG-Konf.  |
|                                                                                          |                                                                                          |                                                                                          | <a href="#">spezielle Prüfbescheinigungen</a><br><br>RINA |

#### Shipping Approval



| Shipping Approval                                                                           | other                                                                                   |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <br>RMRS | <a href="#">Umweltbestätigung</a> <a href="#">Bestätigungen</a> <a href="#">sonstig</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=3RT1016-2KB42-Z X95>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1016-2KB42-Z X95>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1016-2KB42-Z X95>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT1016-2KB42-Z X95&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1016-2KB42-Z X95&lang=en)

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