

CONTACTOR, AC-3, 11KW/400V, DC 24 V,  
4-POLE, 2 NO + 2 NC, SIZE S0,  
SCREW CONNECTION

### General technical data:

|                                                                                       |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| product brand name                                                                    |    | SIRIUS      |
| Size of the contactor                                                                 |    | S0          |
| Protection class IP / on the front                                                    |    | IP20        |
| Protection against electrical shock                                                   |    | finger-safe |
| Degree of pollution                                                                   |    | 3           |
| Installation altitude / at a height over sea level / maximum                          | m  | 2,000       |
| Ambient temperature                                                                   |    |             |
| • during storage                                                                      | °C | -55 ... +80 |
| • during operating                                                                    | °C | -25 ... +60 |
| Insulation voltage / rated value                                                      | V  | 690         |
| Mechanical operating cycles as operating time                                         |    |             |
| • of the contactor / typical                                                          |    | 10,000,000  |
| • of the contactor with added auxiliary switch block / typical                        |    | 10,000,000  |
| • of the contactor with added electronics-compatible auxiliary switch block / typical |    | 5,000,000   |

### Main circuit:

|                                            |   |     |
|--------------------------------------------|---|-----|
| Number of NC contacts / for main contacts  |   | 2   |
| Number of NO contacts / for main contacts  |   | 2   |
| Operating current / at AC-2 / at AC-3      |   |     |
| • at 400 V                                 |   |     |
| • per NO contact / rated value             | A | 20  |
| • per NC contact / rated value             | A | 20  |
| Operating current                          |   |     |
| • with 1 current path / at DC-1            |   |     |
| • at 24 V / rated value                    | A | 35  |
| • at 110 V / rated value                   | A | 4.5 |
| • at 220 V / rated value                   | A | 1   |
| • at 440 V / rated value                   | A | 0.4 |
| • with 2 current paths in series / at DC-1 |   |     |
| • at 24 V / rated value                    | A | 35  |
| • at 110 V / rated value                   | A | 35  |

|                                                      |    |       |
|------------------------------------------------------|----|-------|
| • at 220 V / rated value                             | A  | 5     |
| • at 440 V / rated value                             | A  | 1     |
| <b>Operating current</b>                             |    |       |
| • with 1 current path / at DC-3 / at DC-5            |    |       |
| • at 24 V                                            |    |       |
| • per NO contact / rated value                       | A  | 20    |
| • per NC contact / rated value                       | A  | 20    |
| • at 110 V                                           |    |       |
| • per NO contact / rated value                       | A  | 2.5   |
| • per NC contact / rated value                       | A  | 1.25  |
| • at 220 V                                           |    |       |
| • per NO contact / rated value                       | A  | 1     |
| • per NC contact / rated value                       | A  | 0.5   |
| • at 440 V                                           |    |       |
| • per NO contact / rated value                       | A  | 0.09  |
| • per NC contact / rated value                       | A  | 0.045 |
| • with 2 current paths in series / at DC-3 / at DC-5 |    |       |
| • at 24 V                                            |    |       |
| • per NO contact / rated value                       | A  | 35    |
| • per NC contact / rated value                       | A  | 35    |
| • at 110 V                                           |    |       |
| • per NO contact / rated value                       | A  | 15    |
| • per NC contact / rated value                       | A  | 7.5   |
| • at 220 V                                           |    |       |
| • per NO contact / rated value                       | A  | 3     |
| • per NC contact / rated value                       | A  | 1.5   |
| • at 440 V                                           |    |       |
| • per NO contact / rated value                       | A  | 0.27  |
| • per NC contact / rated value                       | A  | 0.135 |
| <b>Operating performance</b>                         |    |       |
| • at AC-1                                            |    |       |
| • at 230 V / rated value                             | kW | 15    |
| • at 400 V / rated value                             | kW | 26    |
| • at AC-2 / at AC-3                                  |    |       |
| • at 230 V                                           |    |       |
| • per NO contact / rated value                       | kW | 5.5   |
| • per NC contact / rated value                       | kW | 5.5   |
| • at 400 V                                           |    |       |
| • per NO contact / rated value                       | kW | 11    |
| • per NC contact / rated value                       | kW | 11    |

|                                                                                                    |     |       |
|----------------------------------------------------------------------------------------------------|-----|-------|
| <b>Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor</b> | W   | 1.6   |
| <b>Frequency of operation</b>                                                                      |     |       |
| • with AC-1 / maximum                                                                              | 1/h | 1,000 |
| • at AC-2 / at AC-3 / maximum                                                                      | 1/h | 750   |

#### Control circuit:

|                                                                                       |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| <b>Voltage type / of control feed voltage</b>                                         |    | DC          |
| <b>Control supply voltage</b>                                                         |    |             |
| • for DC / rated value                                                                | V  | 24          |
| <b>operating range factor control supply voltage rated value / of the magnet coil</b> |    |             |
| • for DC                                                                              |    | 0.8 ... 1.1 |
| <b>Pull-in power / of the solenoid / for DC</b>                                       | W  | 5.4         |
| <b>Holding power / of the solenoid / for DC</b>                                       | W  | 5.4         |
| <b>Closing delay</b>                                                                  |    |             |
| • at AC                                                                               | ms | 6 ... 30    |
| • at DC                                                                               | ms | 30 ... 90   |
| <b>Opening delay</b>                                                                  |    |             |
| • at AC                                                                               | ms | 13 ... 25   |
| • at DC                                                                               | ms | 13 ... 40   |
| <b>Arcing time</b>                                                                    | ms | 10 ... 15   |
| <b>Residual current / of electronics / for control with signal &lt;0&gt;</b>          |    |             |
| • at 24 V / with DC / maximum permissible                                             | A  | 0.016       |

#### Auxiliary circuit:

|                                                                                 |   |                                                 |
|---------------------------------------------------------------------------------|---|-------------------------------------------------|
| <b>Contact reliability / of the auxiliary contacts</b>                          |   | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b> |   | 0                                               |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |   | 0                                               |
| <b>Operating current</b>                                                        |   |                                                 |
| • at AC-12 / maximum                                                            | A | 10                                              |
| • at AC-15                                                                      |   |                                                 |
| • at 230 V / rated value                                                        | A | 6                                               |
| • at 400 V / rated value                                                        | A | 3                                               |
| <b>Operating current / at DC-12</b>                                             |   |                                                 |
| • at 60 V / rated value                                                         | A | 6                                               |
| • at 110 V / rated value                                                        | A | 3                                               |
| • at 220 V / rated value                                                        | A | 1                                               |
| <b>Operating current / at DC-13</b>                                             |   |                                                 |
| • at 24 V / rated value                                                         | A | 10                                              |

- at 60 V / rated value
- at 110 V / rated value
- at 220 V / rated value

|   |     |
|---|-----|
| A | 2   |
| A | 1   |
| A | 0.3 |

#### Short-circuit:

##### Design of the fuse link

- for short-circuit protection of the auxiliary switch / required
- for short-circuit protection of the main circuit
  - with type of assignment 1 / required
  - at type of coordination 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 63 A

fuse gL/gG: 35 A

#### Installation/mounting/dimensions:

##### mounting position

with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back

##### Mounting type

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

##### Mounting type / series installation

Yes

##### Width

mm 61

##### Height

mm 85

##### Depth

mm 101

#### Connections:

##### Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

##### Type of the connectable conductor cross-section

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm²

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

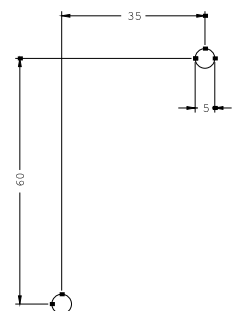
2x (20 ... 16), 2x (18 ... 14), 1x 12

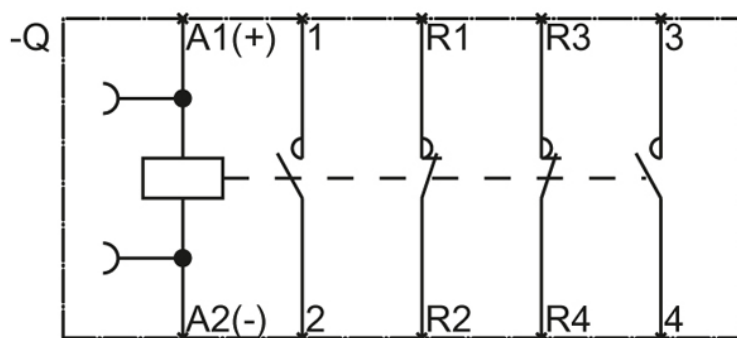
#### Certificates/approvals:

## Declaration of Conformity



RMRS





last change:

Jun 16, 2014