



OVERLOAD RELAY 12.5...50 A FOR MOTOR  
PROTECTION SIZE S2,  
CLASS 10 FOR MOUNTING ONTO CONT. MAIN CIRCUIT:  
SCREW CONNECTION AUX. CIRCUIT: SCREW  
CONNECTION MANUAL-AUTOMATIC-RESET

### General technical data:

|                                                                         |    |                                             |
|-------------------------------------------------------------------------|----|---------------------------------------------|
| product brand name                                                      |    | SIRIUS                                      |
| Product designation                                                     |    | solid-state overload relay                  |
| Size of overload relay                                                  |    | S2                                          |
| Number of poles / for main current circuit                              |    | 3                                           |
| Product function / removable terminal for auxiliary and control circuit |    | Yes                                         |
| Impulse voltage resistance / rated value                                | kV | 6                                           |
| Protection class IP                                                     |    | IP20                                        |
| Protection class IP / on the front                                      |    | IP20                                        |
| Protection against electrical shock                                     |    | finger-safe                                 |
| Installation altitude / at a height over sea level / maximum            | m  | 2,000                                       |
| Resistance against shock                                                |    | 15g / 11 ms                                 |
| Ambient temperature                                                     |    |                                             |
| • during transport                                                      | °C | -40 ... +80                                 |
| • during storage                                                        | °C | -40 ... +80                                 |
| • during operating                                                      | °C | -25 ... +60                                 |
| Relative humidity / during operating phase / maximum                    | %  | 100                                         |
| Electrostatic discharge / according to IEC 61000-4-2                    |    | 6 kV contact discharge / 8 kV air discharge |
| Field-bound parasitic coupling / according to IEC 61000-4-3             |    | 10 V/m                                      |

|                                                                                           |   |                                                                             |
|-------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4                     |   | 2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 |
| Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5     |   | 2 kV (line to earth) corresponds to degree of severity 3                    |
| Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5 |   | 1 kV (line to line) corresponds to degree of severity 3                     |
| Type of protection                                                                        |   | PTB 06 ATEX 3001 Ex II (2) GD                                               |
| Active power loss / total / typical                                                       | W | 0.05                                                                        |
| Size of the contactor / can be combined / company-specific                                |   | S2                                                                          |

|                                                    |   |    |
|----------------------------------------------------|---|----|
| <b>Main circuit:</b>                               |   |    |
| Operating current / of the fuse link / rated value | A | 80 |
| Type of assignment                                 |   | 2  |

|                                                                                           |   |                 |
|-------------------------------------------------------------------------------------------|---|-----------------|
| <b>Auxiliary circuit:</b>                                                                 |   |                 |
| Number of NC contacts / for auxiliary contacts                                            |   | 1               |
| Number of NO contacts / for auxiliary contacts                                            |   | 1               |
| Number of changeover contacts / for auxiliary contacts                                    |   | 0               |
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required |   | fuse gL/gG: 6 A |
| Operating current / of the auxiliary contacts                                             |   |                 |
| • at AC-15                                                                                |   |                 |
| • at 24 V                                                                                 | A | 4               |
| • at 110 V                                                                                | A | 4               |
| • at 120 V                                                                                | A | 4               |
| • at 125 V                                                                                | A | 4               |
| • at 230 V                                                                                | A | 3               |
| • at DC-13                                                                                |   |                 |
| • at 24 V                                                                                 | A | 2               |
| • at 60 V                                                                                 | A | 0.55            |
| • at 110 V                                                                                | A | 0.3             |
| • at 125 V                                                                                | A | 0.3             |
| • at 220 V                                                                                | A | 0.11            |

|                                                                         |   |             |
|-------------------------------------------------------------------------|---|-------------|
| <b>Protective and monitoring functions:</b>                             |   |             |
| Trip class                                                              |   | CLASS 10    |
| Adjustable response current / of the current-dependent overload release | A | 12.5 ... 50 |

|                                            |    |                 |
|--------------------------------------------|----|-----------------|
| <b>Installation/ mounting/ dimensions:</b> |    |                 |
| Mounting type                              |    | direct mounting |
| mounting position                          |    | any             |
| Depth                                      | mm | 109             |

|               |    |    |
|---------------|----|----|
| <b>Height</b> | mm | 92 |
| <b>Width</b>  | mm | 55 |

#### Connections/ terminals:

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

2x (1 ... 16 mm<sup>2</sup>)

2x (1 ... 16 mm<sup>2</sup>), 1 ... 25 mm<sup>2</sup>

2x (max. 25 mm<sup>2</sup>), 1 ... 35 mm<sup>2</sup>

2 x (max. 4), 1 x (18 ... 2)

0.5 ... 4 mm<sup>2</sup>, 2x (0.5 ... 2.5 mm<sup>2</sup>)

0.5 ... 2.5 mm<sup>2</sup>, 2x (0.5 ... 1.5 mm<sup>2</sup>)

2x (20 ... 14)

#### Certificates/ approvals:

##### General Product Approval

##### EMC

##### For use in hazardous locations



CCC



CSA



UL



C-TICK



ATEX

##### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

##### Shipping Approval



ABS



DNV



GL



LRS



RINA

##### other

[Declaration of Conformity](#)

[other](#)

[Environmental Confirmations](#)

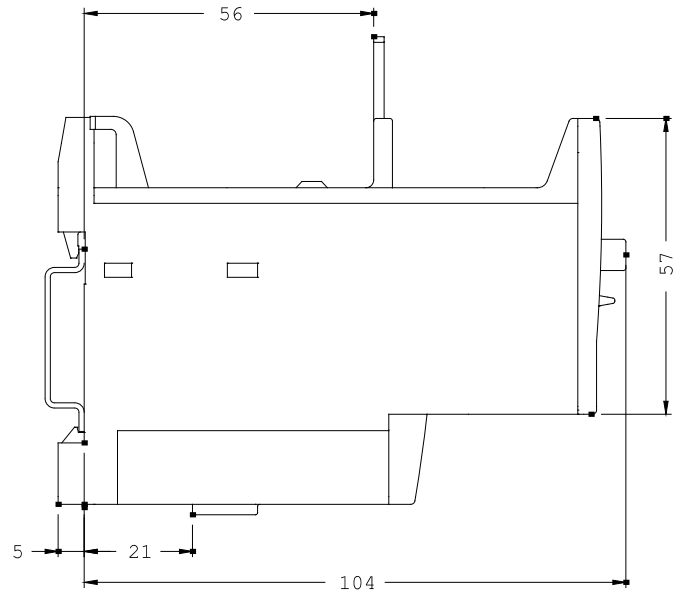
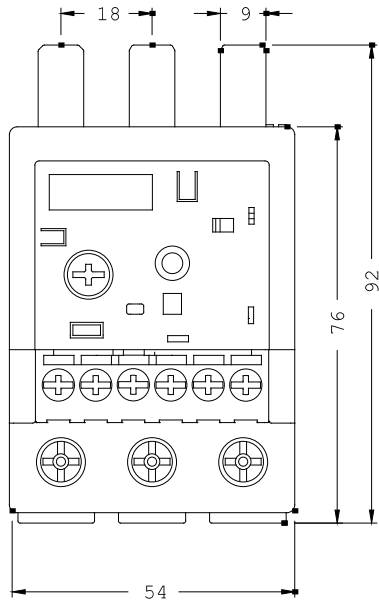
#### Further information:

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>



last change:

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