



OVERLOAD RELAY 0.32...1.25 A FOR MOTOR
PROTECTION SIZE S0,
CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SPR.-
LOAD.TERM. AUX.CIRCUIT: SPR.-LOAD.TERM. MANUAL-
AUTOM.-RESET INT. GROUND FAULT DETECTION

| General technical data: | | |
|---|-----|---|
| Product brand name | | SIRIUS |
| product designation | | solid-state overload relay |
| Protection class IP / on the front | | IP20 |
| Insulation voltage / with degree of pollution 3 / rated value | V | 690 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature | | |
| • during storage | °C | -40 ... 80 |
| • during transport | °C | -40 ... 80 |
| • during operating | °C | -25 ... 60 |
| Relative humidity | | |
| • during operating phase | / % | 95 |
| EMC immunity to interference | | |
| • according to IEC 60947-1 | | corresponds to degree of severity 3 |
| EMC emitted interference | | |
| • according to IEC 60947-1 | | CISPR 11, environment B (residential area) |
| 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 |
| 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 |
| Resistance against shock | | 15g / 11 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Active power loss / total / typical | W | 0.05 |
| Item designation | | |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | F |
| • according to DIN EN 61346-2 | | F |
| Size of overload relay | | S0 |
| Size of the contactor / can be combined / company-specific | | S0 |
| type of protection | | PTB 09 ATEX 3001 Ex II (2) GD |
| Type of assignment | | 2 |
| Trip class | | CLASS 5, 10, 20 and 30 adjustable |

Main circuit:

| | | |
|--|----|---------------|
| Number of poles / for main current circuit | | 3 |
| Operating voltage / at AC-3 / rated value | | |
| • maximum | V | 690 |
| Operating current / at AC-3 / at 400 V | | |
| • rated value | A | 1.25 |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 0.32 ... 1.25 |
| Service power / for three-phase servomotors / at 400 V / at 50 Hz | | |
| • for AC three-phase | kW | 0.12 ... 0.37 |
| Operating current / of the fuse link | | |
| • rated value | A | 6 |

Auxiliary circuit:

| | | |
|--|--|--|
| Contact reliability / of the auxiliary contacts | | acceptability for PLC control (17 V, 5 mA) |
| Number of NC contacts / for auxiliary contacts | | 1 |
| Number of NO contacts / for auxiliary contacts | | 1 |
| Number of change-over switches / for auxiliary contacts | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-15 | | |

- at 24 V
- at 110 V
- at 120 V
- at 125 V
- at 230 V
- at DC-13
 - at 24 V
 - at 60 V
 - at 110 V
 - at 125 V
 - at 220 V

| | |
|---|-----|
| A | 4 |
| A | 4 |
| A | 4 |
| A | 4 |
| A | 3 |
| A | 2 |
| A | 1 |
| A | 0.3 |
| A | 0.3 |
| A | 1 |

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 6 A

Installation/mounting/dimensions:

Built in orientation

any

Type of mounting

direct mounting

Width

mm

45

Height

mm

87.3

Depth

mm

84.5

Distance, to be maintained, to the ranks assembly

- forwards
- backwards
- upwards
- downwards
- sideways

mm
mm
mm
mm
mm

0
0
0
0
0

Distance, to be maintained, to earthed part

- forwards
- backwards
- upwards
- downwards
- sideways

mm
mm
mm
mm
mm

6
0
6
6
6

Distance, to be maintained, conductive elements

- forwards
- backwards
- upwards
- downwards
- sideways

mm
mm
mm
mm
mm

6
0
6
6
6

Connections:

Design of the electrical connection

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

spring-loaded terminals

spring-loaded terminals

Product function / removable terminal for auxiliary and control circuit

Yes

Type of the connectable conductor cross-section

- for main contacts
 - solid
 - stranded
 - finely stranded
 - with conductor end processing
 - without conductor final cutting
- for AWG conductors / for main contacts
- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
 - without conductor final cutting
- for AWG conductors / for auxiliary contacts

1x (1 ... 10 mm²)

1x (1 ... 10 mm²)

1x (1 ... 6 mm²)

1x (1 ... 6 mm²)

1x (18 ... 8)

1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²)

1x (0.25 ... 1.5 mm²), 2x (0.25 ... 1.5 mm²)

1x (0.25 ... 1.5 mm²), 2x (0.25 ... 1.5 mm²)

1x (24 ... 16), 2x (24 ... 16)

Certificates/approvals:

Verification of suitability

- ATEX

UL / CSA

Yes

General Product Approval

For use in
hazardous
locations

Test Certificates



CQC



CSA

[ROSTEST](#)



UL



PTB

[Manufacturer](#)

Shipping Approval

other



ABS



GL



LRS



RMRS

[Manufacturer](#)

UL/CSA ratings:

Contact rating designation / for auxiliary contacts / according to UL

B300 / R300

Reliability figures:

Protection against electrical shock

finger-safe

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>

Cax online generator:

<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB3123-4NE0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3123-4NE0



