## **SIEMENS**

Product data sheet 3RU2126-4EB1



OVERLOAD RELAY 27...32 A FOR MOTOR PROTECTION SZ S0,

CLASS 10,

STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

| General technical data:  |     |                             |
|--|-----|-----------------------------|
| Product brand name   |     | SIRIUS                      |
| product designation  |     | 3RU2 thermal 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 transport   | °C  | -55 80                      |
| during storage   | °C  | -55 80                      |
| during operating   | °C  | -40 70                      |
| Relative humidity  |     |                             |
| during operating phase   | / % | 90                          |
| Resistance against shock   |     | 8g / 10 ms                  |
| Impulse voltage resistance / rated value   | kV  | 6                           |
| Active power loss / total / typical  | W   | 6.9                         |
| Item designation   |     |                             |
| <ul> <li>according to DIN 40719 extendable after IEC 204-2 / according<br/>to IEC 750</li> </ul> |     | F                           |
| according to DIN EN 61346-2  |     | F                           |

| Trip class                              | CLASS 10 |
|---|----------|
| Type of assignement                     | 2        |
| Size of overload relay                  | S0       |
| Size of the contactor / can be combined |          |
| • company-specific                      | S0       |

| 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  | Α  | 32    |
| Service power / at AC-3                            |    |       |
| • at 400 V / rated value                           | kW | 15    |
| • at 500 V / rated value                           | kW | 18.5  |
| • at 690 V / rated value                           | kW | 30    |
| Adjustable response current                        |    |       |
| of the current-dependent overload release          | Α  | 27 32 |
| Operating current / of the fuse link / rated value | Α  | 80    |

| Auxiliary circuit:                                      |   |  |
|---|---|--|
| Contact reliability / of the auxiliary contacts         |   | < 1 error per 100 million operating cycles |
| 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   | Α | 3  |
| • at 110 V  | Α | 3  |
| • at 120 V  | Α | 3  |
| • at 125 V  | Α | 3  |
| • at 230 V  | Α | 2  |
| • at 400 V  | Α | 1  |
| • at DC-13  |   |  |
| • at 24 V   | Α | 1  |
| • at 110 V  | Α | 0.22                                       |
| • at 125 V  | Α | 0.22                                       |
| • at 220 V  | Α | 0.11                                       |

## Short-circuit:

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

fuse gG: 10 A

| Installation/mounting/dimensions:                                       |    |                                   |
|---|----|-----------------------------------|
| Built in orientation  |    | vertical                          |
| Type of mounting  |    | stand-alone installation          |
| Width   | mm | 45                                |
| Height  | mm | 87                                |
| Depth   | mm | 73                                |
| Distance, to be maintained, to the ranks assembly                       |    |                                   |
| • forwards  | mm | 0                                 |
| • backwards   | mm | 0                                 |
| • upwards   | mm | 6                                 |
| • downwards   | mm | 6                                 |
| • sidewards   | mm | 6                                 |
| Distance, to be maintained, to earthed part                             |    |                                   |
| • forwards  | mm | 0                                 |
| • backwards   | mm | 0                                 |
| • upwards   | mm | 6                                 |
| • downwards   | mm | 6                                 |
| • sidewards   | mm | 6                                 |
| Distance, to be maintained, conductive elements                         |    |                                   |
| • forwards  | mm | 0                                 |
| • backwards   | mm | 0                                 |
| • upwards   | mm | 6                                 |
| • downwards   | mm | 6                                 |
| • sidewards   | mm | 6                                 |
| Connections:  |    |                                   |
| Design of the electrical connection                                     |    |                                   |
| for main current circuit  |    | screw-type terminals              |
| for auxiliary and control current circuit                               |    | screw-type terminals              |
| Product function / removable terminal for auxiliary and control circuit |    | No                                |
| Type of the connectable conductor cross-section                         |    |                                   |
| • for main contacts   |    |                                   |
| • solid   |    | 2x (1 2.5 mm2), 2x (2.5 10 mm2)   |
| • stranded  |    | 2x (1.0 2.5 mm2), 2x (2.5 10 mm2) |

• finely stranded

• with conductor end processing

• for AWG conductors / for main contacts

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

2x (16 ... 12), 2x (14 ... 8)

• for auxiliary contacts

• solid

• finely stranded

• with conductor end processing

• for AWG conductors / for auxiliary contacts

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

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

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

Certificates/approvals:

Verification of suitability CE / UL / CSA

• ATEX No

General Product Approval For use in

hazardous locations

**Test Certificates** 

coc



ROSTEST



DEKRA EXAM,

Manufacturer

**Shipping Approval** 







GL







**Shipping Approval** 

other



Manufacturer

| Reliability figures:  |     |             |
|---|-----|-------------|
| Mean time to failure (MTTF) / with high demand rate               | а   | 2,280       |
| Proportion of dangerous failures                                  |     |             |
| <ul> <li>with low demand rate / according to SN 31920</li> </ul>  | %   | 50          |
| <ul> <li>with high demand rate / according to SN 31920</li> </ul> | %   | 50          |
| Failure rate (FIT value) / with low demand rate                   |     |             |
| <ul> <li>according to SN 31920</li> </ul>                         | FIT | 50          |
| T1 value / for proof test interval or service life                |     |             |
| according to IEC 61508  | а   | 20          |
| 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

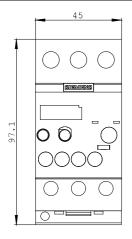
Cax online generator:

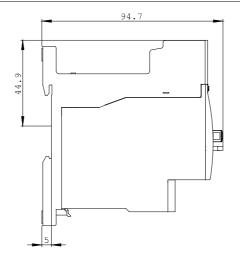
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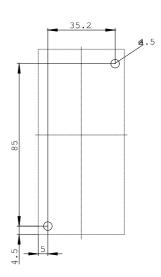
http://support.automation.siemens.com/WW/view/en/3RU2126-4EB1/all

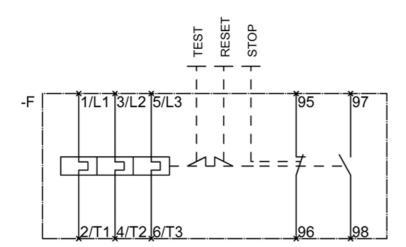
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RU2126-4EB1









last change: Oct 17, 2011