SIEMENS

Product data sheet 3RU2126-4CC1



OVERLOAD RELAY 17...22 A FOR MOTOR PROTECTION SZ S0,

CLASS 10,

STAND-ALONE INSTALLATION MAIN CIRCUIT: SPRING TERMINAL AUX. CIRCUIT: SPRING 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 | 6.2 | |
| Item designation | | | |
| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | 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 | 22 | |
| Service power / at AC-3 | | | |
| • at 400 V / rated value | kW | 11 | |
| at 500 V / rated value | kW | 11 | |
| • at 690 V / rated value | kW | 18.5 | |
| Adjustable response current | | | |
| of the current-dependent overload release | А | 17 22 | |
| Operating current / of the fuse link / rated value | Α | 63 | |

| 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 | | spring-loaded terminals | |
| for auxiliary and control current circuit | | spring-loaded terminals | |
| Product function / removable terminal for auxiliary and control circuit | | No | |
| Type of the connectable conductor cross-section | | | |
| • for main contacts | | | |
| • solid | | 2x (1 10 mm2) | |

• stranded

• finely stranded

• with conductor end processing

• without conductor final cutting

2x (1.0 ... 10 mm2)

2x (1 ... 6 mm2)

2x (1 ... 6 mm2)

| • for AWG conductors / for main contacts | 1x (18 8) |
|---|-------------------|
| • for auxiliary contacts | |
| • solid | 2x (0.5 2.5 mm2) |
| • finely stranded | |
| • with conductor end processing | 2x (0.5 1.5 mm2) |
| without conductor final cutting | 2 x (0.5 1.5 mm2) |
| • for AWG conductors / for auxiliary contacts | 2x (20 14) |

| • for AVVG conducto | rs / for auxiliary co | ontacts | | 2X (20 . | 14) | |
|-------------------------|-----------------------|---------|----------------------------|----------|--------------------------------|-------------------|
| Certificates/approvals: | | | | | | |
| Verification of suitabi | lity | | | CE / UL | _/ CSA | |
| • ATEX | | | | No | | |
| General Product Ap | proval | | | | For use in hazardous locations | Test Certificates |
| coc | CSA | ROSTEST | (UL | | DEKRA EXAM, DMT | Manufacturer |
| Shipping Approval | | | | | | |
| ABS | DNV DNV | GL®) | Lloyd's Register LRS | | PRS | RINA |
| Shipping Approval | other | | | | | |





Manufacturer

| Reliability figures: | | | |
|---|-----|-------------|--|
| Mean time to failure (MTTF) / with high demand rate | а | 2,280 | |
| Proportion of dangerous failures | | | |
| with low demand rate / according to SN 31920 | % | 50 | |
| with high demand rate / according to SN 31920 | % | 50 | |
| Failure rate (FIT value) / with low demand rate | | | |
| according to SN 31920 | 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:

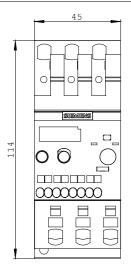
http://www.siemens.com/cax

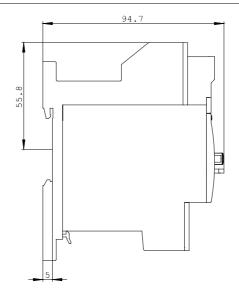
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

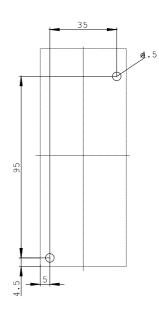
http://support.automation.siemens.com/WW/view/en/3RU2126-4CC1/all

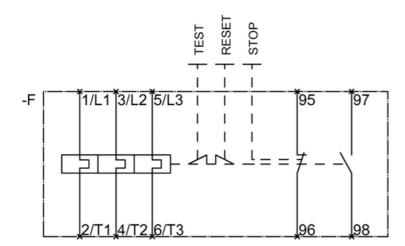
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2126-4CC1









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