SIEMENS

Product data sheet 3RF2310-1AA26



SEMICOND. CONTACTOR 3RF2, 1-PH. AC 51 10 A 40 DEGREES C 48-600 V / 110-230 V AC SCREW TERMINAL

| General technical data: | | |
|---|----|-----------------------|
| Product brand name | | SIRIUS |
| product designation | | solid-state contactor |
| Product function | | zero-point switching |
| Number of poles / for main current circuit | | 1 |
| Protection class IP | | IP20 |
| Product designation / _1 / of the accessories that can be ordered | | terminal cover |
| Manufacturer article number / $_$ 1 / of the accessories that can be ordered | | 3RF2900-3PA88 |
| Product designation / _4 / of the accessories that can be ordered | | load monitoring |
| Manufacturer article number / _4 / of the accessories that can be ordered | | 3RF2920-0GA36 |
| Ambient temperature | | |
| during operating | °C | -25 60 |
| during storage | °C | -55 80 |
| Installation altitude / at a height over sea level / maximum | m | 1,000 |
| Resistance against vibration / according to IEC 60068-2-6 | | 2g |
| Resistance against shock / according to IEC 60068-2-27 | | 15g / 11 ms |
| Item designation | | |

| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | κ |
|--|---|
| according to DIN EN 61346-2 | Q |
| Number of NC contacts / for auxiliary contacts | 0 |
| Number of NO contacts / for auxiliary contacts | 0 |
| Number of change-over switches / for auxiliary contacts | 0 |

| Main circuit: | | |
|--|------|--------|
| Number of NO contacts / for main contacts | | 1 |
| Number of NC contacts / for main contacts | | 0 |
| Operating current | | |
| • at AC-1 / at 400 V / rated value | Α | 10.5 |
| at AC-51 / rated value | Α | 10.5 |
| Operating current / minimum | mA | 100 |
| Operating voltage | | |
| • at 50 Hz / at AC / rated value | V | 48 600 |
| at 60 Hz / at AC / rated value | V | 48 600 |
| Working area related to the operating voltage | | |
| • at 50 Hz / for AC | V | 40 660 |
| • at 60 Hz / for AC | V | 40 660 |
| Operating frequency | | |
| rated value | Hz | 50 60 |
| Relative symmetrical tolerance / of the operation frequency | % | 10 |
| Insulation voltage / rated value | V | 600 |
| Voltage slew rate / at the thyristor / for main contacts / maximum permissible | V/µs | 1,000 |
| Block voltage / at the thyristor / for main contacts / maximum permissible | V | 1,600 |
| Reverse current / of the thyristor | mA | 10 |
| Derating temperature | °C | 40 |
| Active power loss / total / typical | W | 11 |
| Resistance against the impulse current / rated value | Α | 400 |
| I2t-level / maximum | A²-s | 800 |

| Control circuit: | | |
|--|----|----|
| Control supply voltage frequency | | |
| • 1 / rated value | Hz | 50 |
| • 2 / rated value | Hz | 60 |
| Type of voltage / of the controlled supply voltage | | AC |
| Control supply voltage / 1 | | |
| • at 50 Hz / for AC | | |

| initial rated value | V | 110 |
|--|----|--|
| • final rated value | V | 230 |
| • at 60 Hz / for AC | | |
| • initial rated value | V | 110 |
| • final rated value | V | 230 |
| Control supply voltage | | |
| • at 50 Hz / for AC / final value for signal<0>-recognition | V | 40 |
| • at 60 Hz / for AC / final value for signal<0>-recognition | V | 40 |
| Tolerance of the line frequency | Hz | 5 |
| Relative symmetrical tolerance / of the supply voltage frequency | % | 10 |
| Control current | | |
| • at minimum control supply voltage / for AC | mA | 2 |
| • for AC / rated value | mA | 15 |
| Fuse assignments | | https://www.automation.siemens.com/cd-static/material/info/3RF21_eng.pdf |

| Installation/mounting/dimensions: | | |
|---|-----|--|
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Type of fixing/fixation / series installation | | Yes |
| Design of the thread / of the screw for fastening of the operating resource | | M4 |
| Tightening torque / of the screw for fastening of the operating resource | N-m | 1.5 |
| Width | mm | 22.5 |
| Height | mm | 100 |
| Depth | mm | 94 |

| Connections: | | |
|--|--------|---|
| Design of the electrical connection / for main current circuit | | screw-type terminals |
| Design of the thread / of the connection screw / for main contacts | | M4 |
| Tightening torque / for main contacts | | |
| with screw-type terminals | N⋅m | 2 2.5 |
| Tightening torque (lbf-in) / for main contacts | | |
| with screw-type terminals | lbf-in | 18 22 |
| Type of the connectable conductor cross-section | | |
| for main contacts | | |
| • solid | | 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) |
| • finely stranded | | |
| with conductor end processing | | 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² |

| for AWG conductors | | |
|--|--------|------------------------------------|
| • for main contacts | | 2x (14 10) |
| for auxiliary and control contacts | | 1x (AWG 20 12) |
| • for auxiliary and control contacts | | |
| • solid | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| • finely stranded | | |
| with conductor end processing | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| without conductor final cutting | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| Conductor cross section that can be connected | | |
| • for main contacts | | |
| • solid | mm² | 1.5 6 |
| • stranded wire | | |
| • with conductor end processing | mm² | 1 10 |
| for auxiliary and control contacts | | |
| • solid | mm² | 0.5 2.5 |
| • stranded wire | | |
| with conductor end processing / minimum | mm² | 0.5 2.5 |
| without conductor final cutting | mm² | 0.5 2.5 |
| AWG number / as coded connectable conductor cross-section / for main contacts | | 10 14 |
| Design of the electrical connection / for auxiliary and control current circuit | | screw-type terminals |
| Design of the thread / of the connection screw / of the auxiliary and control pins | | M3 |
| AWG number / as coded connectable conductor cross-section | | |
| • for auxiliary and control contacts | | 20 12 |
| Skinning length / of the cable / for main contacts | mm | 7 |
| Skinning length / of the cable / for auxiliary and control contacts | mm | 7 |
| Tightening torque / for auxiliary and control contacts | | |
| • with screw-type terminals | N∙m | 0.5 0.6 |
| Tightening torque (lbf-in) / for auxiliary and control contacts | | |
| with screw-type terminals | lbf∙in | 4.5 5.3 |
| | | |

Certificates/approvals:

General Product Approval Test Certificates other



ROSTEST



Manufacturer

Manufacturer

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

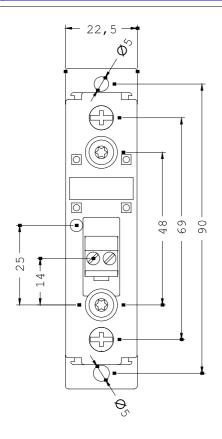
http://www.siemens.com/cax

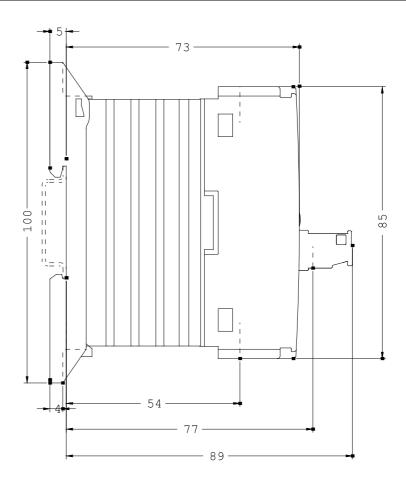
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

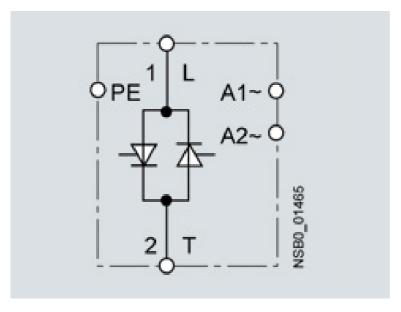
http://support.automation.siemens.com/WW/view/en/3RF2310-1AA26/all

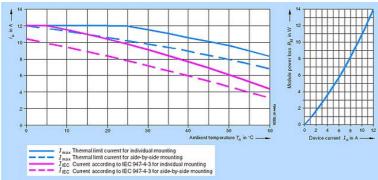
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

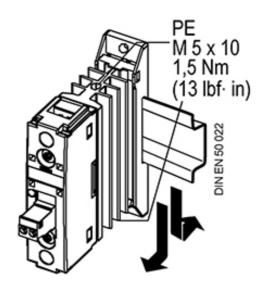
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2310-1AA26











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