SIEMENS

Product data sheet 3RF2370-3BA02



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70A/AC15 27.5A 40 DEG. C 24-230 V / 24 V DC INSTANTANEOUS SWITCHING

| General technical data: | |
|---|-------------------------|
| product brand name | SIRIUS |
| product designation | solid-state contactor |
| Product function | instantaneous 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 / _2 / of the accessories that can be ordered | power regulator |
| Manufacturer article number / _2 / of the accessories that can be ordered | 3RF2990-0HA13 |
| Product designation / _3 / of the accessories that can be ordered | converter |
| Manufacturer article number / _3 / of the accessories that can be ordered | 3RF2900-0EA18 |
| Product designation / _4 / of the accessories that can be ordered | load monitoring |
| Manufacturer article number / _4 / of the accessories that can be ordered | 3RF2990-0GA13 |
| 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 | | К |
| • 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 | 70 |
| • at AC-51 / rated value | Α | 70 |
| Operating current / minimum | mA | 500 |
| Operating voltage | | |
| • at 50 Hz / at AC / rated value | V | 24 230 |
| • at 60 Hz / at AC / rated value | V | 24 230 |
| Working area related to the operating voltage | | |
| • at 50 Hz / for AC | V | 20 253 |
| • at 60 Hz / for AC | V | 20 253 |
| Operating frequency | | |
| • rated value | Hz | 50 60 |
| 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 | 800 |
| Reverse current / of the thyristor | mA | 10 |
| Derating temperature | °C | 40 |
| Active power loss / total / typical | W | 83 |
| Resistance against the impulse current / rated value | Α | 1,150 |
| I2t-level / maximum | A²-s | 6,600 |

| Control circuit: | |
|--|----|
| Type of voltage / of the controlled supply voltage | DC |

| Control supply voltage / 1 | | |
|--|----|--|
| • for DC | | |
| • initial rated value | V | 15 |
| • final rated value | V | 24 |
| Control supply voltage | | |
| • for DC / final value for signal<0>-recognition | V | 5 |
| Control current | | |
| • at minimum control supply voltage / for DC | mA | 2 |
| • for DC / 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 fixing | |
| 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 | 135 | |
| Height | mm | 100 | |
| Depth | mm | 157.5 | |

| Connections: | | |
|--|-----|---|
| Design of the electrical connection / for main current circuit | | ring cable connection |
| Design of the thread / of the connection screw / for main contacts | | M5 |
| Tightening torque / for main contacts | | |
| with screw-type terminals | N⋅m | 2 2.5 |
| Type of the connectable conductor cross-section | | |
| • for main contacts / for JIS cable lug | | JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 |
| • for DIN cable lug / for main contacts | | DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 |
| • for AWG conductors | | |
| 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 auxiliary and control contacts | | |
| • solid | mm² | 0.5 2.5 |

| • stranded wire | | |
|--|--------|-----------------------|
| • with conductor end processing / | mm² | 0.5 2.5 |
| without conductor final cutting | mm² | 0.5 2.5 |
| Design of the electrical connection / for auxiliary and control current circuit | | ring cable connection |
| 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 | 10 |
| Skinning length / of the cable / for auxiliary and control contacts | mm | 10 |
| 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

EMC

Declaration of Conformity

Test Certificates

Type Test
Certificates/Test
Report

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

CAx-Online-Generator

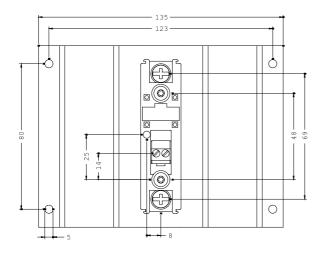
http://www.siemens.com/cax

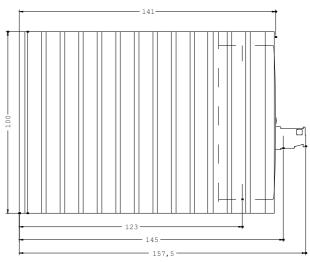
 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

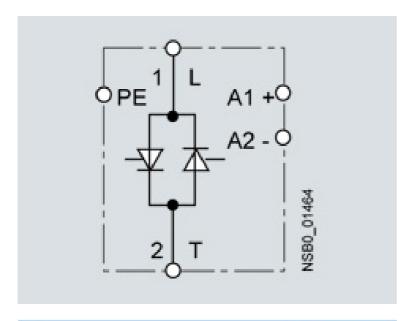
http://support.automation.siemens.com/WW/view/en/3RF2370-3BA02/all

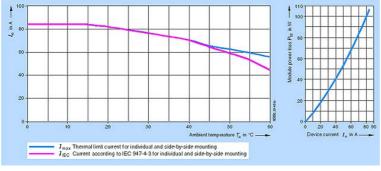
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

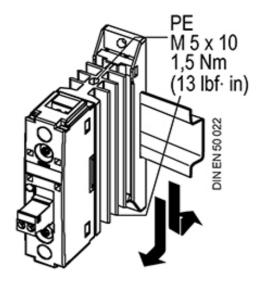
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2370-3BA02}}$











last change: Feb 4, 2013