SIEMENS

Data sheet 3RF23 40-1AA26



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 40 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 | | 3RF2950-0GA36 |
| Ambient temperature | | |
| during operation | °C | -25 +60 |
| during storage | °C | -55 + 80 |
| Installation altitude at height above sea level maximum | m | 1 000 |
| Vibration resistance acc. to IEC 60068-2-6 | | 2g |

| 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 45 144 |
|---|------|-------------|
| Shock resistance acc. to IEC 60068-2-27 | | 15g / 11 ms |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | | K |
| Equipment marking acc. to DIN EN 61346-2 | | Q |
| Number of NC contacts for auxiliary contacts | | 0 |
| Number of NO contacts for auxiliary contacts | _ | 0 |
| Number of CO contacts 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 | 40 |
| • at AC-51 Rated value | Α | 40 |
| Operating current minimum | mA | 500 |
| Operating voltage at AC | | |
| • at 50 Hz Rated value | V | 48 600 |
| ● at 60 Hz Rated value | V | 48 600 |
| Operating range relative to the operating voltage at AC | | |
| ● at 50 Hz | V | 40 660 |
| ● at 60 Hz | V | 40 660 |
| Operating frequency Rated value | Hz | 50 60 |
| Insulation voltage Rated value | V | 600 |
| Rate of voltage rise at the thyristor for main contacts | V/µs | 1 000 |
| maximum permissible | | |
| Blocking 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 | 44 |
| Surge current resistance Rated value | Α | 1 150 |
| I2t value maximum | A²-s | 6 600 |
| Control circuit/ Control: | | |
| Control supply voltage frequency | | |
| • 1 Rated value | Hz | 50 |
| • 2 Rated value | Hz | 60 |
| Type of voltage of the control supply voltage | | AC |
| Control supply voltage 1 | | |
| ● at AC | | |
| — at 50 Hz Initial rated value | V | 110 |
| — at 50 Hz Final rated value | V | 230 |
| — at 60 Hz Initial rated value | V | 110 |
| | | |

| — at 60 Hz Final rated value | V | 230 |
|---|----|-----|
| Control supply voltage | | |
| • at AC | | |
| — at 50 Hz Full-scale value for signal<0> recognition | V | 40 |
| — at 60 Hz Full-scale value for signal<0> recognition | V | 40 |
| Symmetrical line frequency tolerance | Hz | 5 |
| Control current | | |
| at minimum control supply voltage | | |
| — at AC | mA | 2 |
| • at AC Rated value | mA | 15 |

| Installation/ mounting/ dimensions: | | |
|--|-----|--|
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Mounting type Side-by-side mounting | | Yes |
| Design of the thread of the screw for securing the equipment | | M4 |
| Tightening torque of the screw for securing the equipment | N·m | 1.5 |
| Width | mm | 67.5 |
| Height | mm | 100 |
| Depth | mm | 156 |

| Connections/ Terminals: | | |
|--|--------|---|
| Type of 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 connectable conductor cross-section for main contacts | | |
| • solid | | 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) |
| finely stranded | | |
| — with core end processing | | 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² |
| Type of connectable conductor cross-section | | |
| for AWG conductors | | |
| — for main contacts | | 2x (14 10) |
| — for auxiliary and control contacts | | 1x (AWG 20 12) |
| Type of connectable conductor cross-section for auxiliary and control contacts | | |
| • solid | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |

| finely stranded | | |
|---|--------|------------------------------------|
| — with core end processing | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| — without core end processing | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| Connectable conductor cross-section | | |
| • for main contacts | | |
| — single or multi-stranded | mm² | 1.5 6 |
| — finely stranded | | |
| — with core end processing | mm² | 1 10 |
| for auxiliary and control contacts | | |
| — solid | mm² | 0.5 2.5 |
| — finely stranded | | |
| — with core end processing | mm² | 0.5 2.5 |
| — without core end processing | mm² | 0.5 2.5 |
| AWG number as coded connectable conductor cross | | |
| section | | |
| • for main contacts | | 10 14 |
| for auxiliary and control contacts | | 20 12 |
| Type of electrical connection for auxiliary and control current circuit | | screw-type terminals |
| Design of the thread of the connection screw of the auxiliary and control contacts | | M3 |
| Wire stripping length of the cable | | |
| • for main contacts | mm | 7 |
| 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 |

EMC General Product Approval Declaration of Test Conformity Certificates











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| Test | other |
|--------------------|-------------------|
| Certificates | |
| Typprüfbescheinigu | Umweltbestätigung |

Typprüfbescheinigu ng/Werkszeugnis

Further information

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cd-static/material/info/3RF23_eng.pdf

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

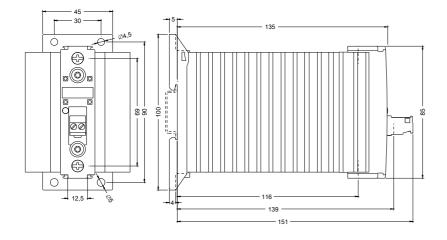
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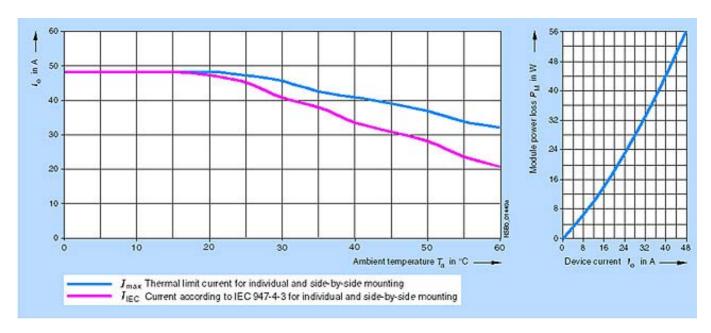
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23401AA26

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF23401AA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23401AA26&lang=en





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