SIEMENS

Data sheet

3RF2340-1BA22

Solid-state contactor 1-phase 3RF2 AC 15 / 20 A / 40 $^\circ\text{C}$ 24-230 V / 110-230 V AC Instantaneous switching

| product brand name | SIRIUS |
|---|-------------------------|
| product designation | solid-state contactor |
| design of the product | single-phase |
| product type designation | 3RF23 |
| manufacturer's article number | |
| _1 of the accessories that can be ordered | <u>3RF2900-3PA88</u> |
| _2 of the accessories that can be ordered | <u>3RF2950-0HA33</u> |
| _4 of the accessories that can be ordered | <u>3RF2950-0GA33</u> |
| product designation | |
| _1 of the accessories that can be ordered | terminal cover |
| _2 of the accessories that can be ordered | power regulator |
| _4 of the accessories that can be ordered | load monitoring |
| General technical data | |
| product function | instantaneous switching |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 44 W |
| at AC in hot operating state per pole | 44 W |
| without load current share typical | 3.5 W |
| insulation voltage rated value | 600 V |
| degree of pollution | 3 |
| type of voltage of the control supply voltage | AC |
| surge voltage resistance of main circuit rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | 15g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | 2g |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 05/28/2009 |
| Main circuit | |
| number of poles for main current circuit | 1 |
| number of NO contacts for main contacts | 1 |
| number of NC contacts for main contacts | 0 |
| operating voltage at AC | |
| at 50 Hz rated value | 24 230 V |
| at 60 Hz rated value | 24 230 V |
| operating frequency rated value | 50 60 Hz |
| operating range relative to the operating voltage at AC | |
| • at 50 Hz | 20 253 V |
| • at 60 Hz | 20 253 V |
| operational current | |
| at AC-51 rated value | 40 A |
| at AC-51 according to IEC 60947-4-3 | 33 A |
| according to UL 508 rated value | 20 A |
| | |

| | 500 | | | |
|---|--|--|--|--|
| operational current minimum | 500 mA | | | |
| rate of voltage rise at the thyristor for main contacts maximum permissible | 1 000 V/µs | | | |
| blocking voltage at the thyristor for main contacts maximum permissible | 800 V | | | |
| reverse current of the thyristor | 10 mA | | | |
| derating temperature | 40 °C | | | |
| surge current resistance rated value | 1 200 A | | | |
| l2t value maximum | 7 200 A ² ·s | | | |
| Control circuit/ Control | | | | |
| type of voltage of the control supply voltage | AC | | | |
| control supply voltage 1 at AC | | | | |
| • at 50 Hz | 110 230 V | | | |
| • at 60 Hz | 110 230 V | | | |
| control supply voltage frequency | | | | |
| • 1 rated value | 50 Hz | | | |
| • 2 rated value | 60 Hz | | | |
| control supply voltage at AC | 40.14 | | | |
| at 50 Hz full-scale value for signal<0> recognition at 60 Hz full-scale value for signal<0> recognition | 40 V 40 V | | | |
| at 60 H2 full-scale value for signal<0> recognition control supply voltage | V UF | | | |
| at AC initial value for signal <1> detection | 90 V | | | |
| symmetrical line frequency tolerance | 5 Hz | | | |
| control current at minimum control supply voltage | | | | |
| • at AC | 2 mA | | | |
| control current at AC rated value | 15 mA | | | |
| ON-delay time | 40 ms | | | |
| OFF-delay time | 40 ms; additionally max. one half-wave | | | |
| Auxiliary circuit | | | | |
| number of NC contacts for auxiliary contacts | 0 | | | |
| number of NO contacts for auxiliary contacts | 0 | | | |
| number of CO contacts for auxiliary contacts | 0 | | | |
| | | | | |
| Installation/ mounting/ dimensions | | | | |
| Installation/ mounting/ dimensions fastening method | screw fixing and snap-on mounting on standard mounting rail 35 mm | | | |
| fastening method | according to IEC 60715 | | | |
| fastening method side-by-side mounting | according to IEC 60715 Yes | | | |
| fastening method | according to IEC 60715 | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the | according to IEC 60715 Yes | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment | according to IEC 60715 Yes M4 | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height | according to IEC 60715 Yes M4 100 mm | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width | according to IEC 60715 Yes M4 100 mm 67.5 mm | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² | | | |
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| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² | | | |
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| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts onnectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • finely stranded with core end processing type of connectable conductor cross-sections • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-sections • finely stranded with core end processing • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts e solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — solid — finely stranded with core end processing — finely stranded with core end processing | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) 1.5 6 mm ² $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts — solid • finely stranded with core end processing • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded with core end processing — solid — finely stranded with core end processing — a finely stranded with core end processing | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.4 Cm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (AWG 20 12) | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts e solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • poild — solid — finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) 1.5 6 mm ² $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts e solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (AWG 20 12) | | | |
| fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts ontacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid or stranded • finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing • finely stranded with core end processing • a solid — finely stranded with core end processing • a solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts | according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (AWG 20 12) | | | |

| 61000-4-6 80 MHz 1 GHz 10 V/m, behavior criterion 1 field-based interference according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 electrostatic discharge according to IEC 61000-4-2 Class A for industrial environment conducted HF interference emissions according to CISPR11 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment Class A for industrial environment Short-circuit protection, design of the fuse link Class B for the domestic, business and commercial environments Short-circuit protection, design of the fuse link SNE1802-0 e of full range R fuse link for semiconductor protection at cylindrical design usable SNE1802-0 e of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable SNC1450 e of black-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable SNC2200 e at cylindrical design 14 x 51 mm usable SNW6117-1 e at cylindrical design 14 x 51 mm usable SNW6117-1 e at cylindrical design 22 x 58 mm usable SNW6117-1 e at cylindrical design 22 x 58 mm usable SNW6117-1 e of DIAZED fuse usable SSE1351 e of NEOZED fuse usable SSE37 These fuses have a smaller rated current than the semiconductor relays <th></th> <th></th> | | | | | | |
|--|---|---|--|--|--|--|
| • for mails contacts with screw-type terminals 18 | | 0.5 0.6 N·m | | | | |
| | tightening torque [lbf·in] | | | | | |
| terminals design of the thread of the connection screw if or main contacts if the auxiliary and control contacts if or auxiliary and control contacts if or main conta | for main contacts with screw-type terminals | 18 22 lbf·in | | | | |
| • for main contacts • of the auxiliary and control contacts stripped length of the cable • for main contacts • for portection on the front according to IEC • for other formere • for graving to IEC 61000-4.4 • for formane contacts • formane contacts • for formane contacts • formane contacts | | 4.5 5.3 lbf∙in | | | | |
| | design of the thread of the connection screw | | | | | |
| stripped length of the cable 7 mm • for mailing and control contacts 7 mm afoy rolated data 7 mm protection class IP on the front according to IEC 60529 IP20 for availance and control contacts 1000 m minimum 1000 m minimum 1000 m ambient conditions -25 +60 °C -during periation -25 +60 °C -during storage -55 +60 °C -during storage -25 +60 °C -due to conductor-conductor surge according to IEC 1000 m -due to conductor-conductor surge according to IEC 1 kV behavior criterion 2 -due to onductor-conductor surge according to IEC 1 40 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 electrostact discharge according to IEC 61000-4-2 40 V contact discharging /8 kV air discharging, behavior criterion 2 Class A for industrial environment Class A for industrial environment CISPR11 Theforence emission according to IEC fold-bascup R fuse link for semiconductor protectio | for main contacts | M4 | | | | |
| • for main contacts 7 mm • for auxiliary and control | of the auxiliary and control contacts | | | | | |
| • for auxiliary and control contacts for m faty related data /// faty related data /// ////// | stripped length of the cable | | | | | |
| afety related data IP20 protection class IP on the front according to IEC 60529 Inger-safe, for vertical contact from the front mbiont conditions inger-safe, for vertical contact from the front mbiont conditions 1000 m ambient temporature -25 +60 °C - during operation -25 +60 °C - during storage -25 +60 °C - during operation -25 +60 °C - due to burst according to IEC 61000-4-4 2 kV / 5 kHz behavior criterion 2 - due to conductor-earth surge according to IEC 61000-4-5 2 kV / 5 kHz behavior criterion 2 - due to burst according to IEC 61000-4-3 2 kV / 5 kHz behavior criterion 2 - due to high-frequency radiation according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment CISPR11 Class A for industrial environment Class A for industrial environment ord Sf lues for semiconductor protection at cylindrical design usable 3NE1802-0 5SE1350 of bal range R tuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 3NE1802-0 5SE1350 at cylindrical design 22 x 68 mm usable 3NE18017-1 3NE6817-1 | for main contacts | 7 mm | | | | |
| protection class IP on the front according to IEC IP20 MBERT conditions finger-safe, for vertical contact from the front mbient conditions 1 000 m | | | | | | |
| 66529 finger-safe, for vertical contact from the front bient conditions inger-safe, for vertical contact from the front installation altitude at height above sea level maximum ambient temperature - during operation -25 +60 °C - during storage -55 +60 °C etermognetic compatibility conductor ditterference - due to conductor-earth surge according to IEC 2 kV / 5 kHz behavior criterion 2 61000-4-5 - due to conductor-conductor surge according to IEC 61000-4-5 - due to conductor-conductor surge according to IEC 61000-4-6 1 kV behavior criterion 2 61000-4-6 2 kV / 5 kHz behavior criterion 2 61000-4-6 1 kV behavior criterion 2 61000-4-6 80 MHz 1 GHz 10 V/m, behavior criterion 1 electrostatic discharge according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 class A for industrial environment Class A for industrial environment CIBert A for industrial environment Class A for industrial environment clight-backup R fuse link for semiconductor protection at NH design usable 3NE1802-0 of back-up R fuse link for semiconductor protection at cylindrical design usable 3NE1802-0 of back-up R tyse link for se | afety related data | | | | | |
| 60529 finger-safe, for vertical contact from the front bient conditions inger-safe, for vertical contact from the front installation altitude at height above sea level maximum 1.000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +60 °C • due to conductor-earth surge according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 1 kV behavior criterion 2 61000-4-5 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-settin surge according to IEC 61000-4-6 1 kV behavior criterion 2 61000-4-6 1 kV behavior criterion 2 61000-4-6 1 kV behavior criterion 1 1000-4-6 1 kV behavior criterion 2 1000-4-5 1 kV behavior criterion 1 1010-4-6 1 kV behavior criterion 2 10100-4-5 1 kV behavior criterion 2 10100-4-5 1 kV contact discharging, behavior criterion 1 1010-4-6 2 kV/ ofkst labersinging, behavior criterion 1 1010-4-16 10 kV contact discharging / 8 kV air discharging, behavior criterion 2 1011 range R fuse link for semiconductor protection at NH< | protection class IP on the front according to IEC | IP20 | | | | |
| mbient conditions installation altitude at height above sea level maximum ambient temperature é during operation é during storage é during storage é due to burst according to IEC 61000-4-4 é due to conductor-earth surge according to IEC 61000-4-5 é due to conductor-conductor surge according to IEC 61000-4-5 é due to conductor-conductor surge according to IEC 61000-4-5 é due to conductor-conductor surge according to IEC 61000-4-3 é due to conductor-ding to IEC 61000-4-3 é due to conductor-ding to IEC 61000-4-3 e due to isochraph (a terrefrence according to IEC 61000-4-3 e detrostatic discharge according to IEC 61000-4-3 e detrostatic discharge according to IEC 61000-4-3 e discharge according to IEC 61000-4-2 e discharge according to IEC 61000-4-3 | | | | | | |
| installation altitude at height above sea level maximum 1 000 m ambient temperature - 25 + 60 °C • during storage - 25 + 60 °C • during storage - 25 + 60 °C • during storage - 25 + 60 °C • due to conductor-earth surge according to IEC 2 kV / 5 kHz behavior criterion 2 • due to conductor-earth surge according to IEC 1 kV behavior criterion 2 • due to conductor-earth surge according to IEC 1 kV behavior criterion 2 • due to bigh-frequency radiation according to IEC 1 kV behavior criterion 2 • due to conductor-conductor surge according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 electrostatic discharge according to IEC 61000-4-2 2 kV contact discharging / 8 kV air discharging, behavior criterion 2 Conducted HF interference emissions according to IEC GISPR11 Class B for the domestic, business and commercial environment CISPR11 Class B for the domestic, business and commercial environment CISPR11 SIE1802-0 • of g S fuse for semiconductor protection at cylindrical design usable SIE1802-0 • of b ack-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usable SINE8017-1 • of b ack-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usabl | touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front | | | | |
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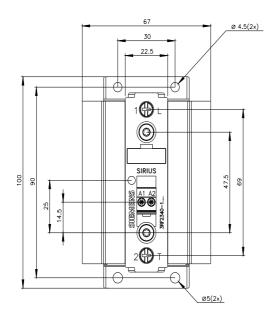
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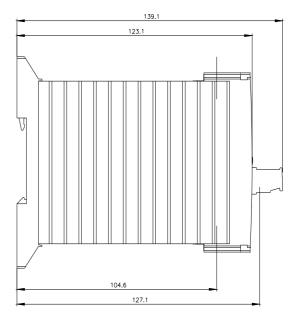
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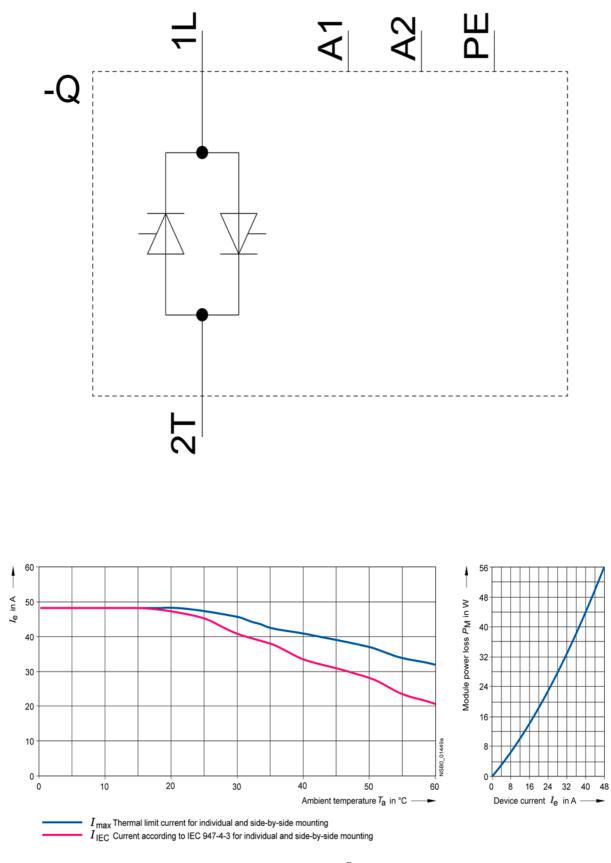
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