# **SIEMENS**

Data sheet 3RF2340-1AA22



Solid-state contactor 1-phase 3RF2 AC 51 / 40 A / 40  $^{\circ}\text{C}$  24-230 V / 110-230 V AC screw terminal

| product brand name  | SIRIUS   |
|---|--|
| product designation   | solid-state contactor  |
| design of the product   | single-phase   |
| product type designation                                      | 3RF23  |
| manufacturer's article number                                 |  |
| <ul><li>_1 of the accessories that can be ordered</li></ul>   | 3RF2900-3PA88  |
| <ul> <li>_4 of the accessories that can be ordered</li> </ul> | 3RF2950-0GA33  |
| product designation   |  |
| <ul><li>_1 of the accessories that can be ordered</li></ul>   | terminal cover   |
| <ul><li>_4 of the accessories that can be ordered</li></ul>   | load monitoring  |
| General technical data  |  |
| product function  | zero-point switching   |
| power loss [W] for rated value of the current                 |  |
| • at AC in hot operating state                                | 44 W   |
| <ul> <li>at AC in hot operating state per pole</li> </ul>     | 44 W   |
| without load current share typical                            | 3.5 W  |
| insulation voltage rated value                                | 600 V  |
| degree of pollution   | 3  |
| type of voltage   |  |
| <ul> <li>of the operating voltage</li> </ul>                  | AC   |
| of the control supply voltage                                 | AC   |
| surge voltage resistance of main circuit rated value          | 6 kV   |
| protection class IP   | IP20   |
| protection class IP on the front according to IEC 60529       | IP20   |
| 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)                                 | 07/01/2006   |
| SVHC substance name   | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 |
| Weight  | 0.46 kg  |
| 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  |
| type of voltage of the operating voltage                      | AC   |
| 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 frequency rated value operating range relative to the operating voltage at AC | 00 00 HZ   |
|   | 20 252 \/  |
| • at 50 Hz  | 20 253 V   |
| • at 60 Hz  | 20 253 V   |
| operational current   | 40.4   |
| • at AC-51 rated value  | 40 A   |
| • at AC-51 according to IEC 60947-4-3   | 33 A   |
| according to UL 508 rated value   | 36 A   |
| operational current minimum   | 500 mA   |
| rate of voltage rise at the thyristor for main contacts<br>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  |
| I2t value maximum   | 7 200 A²·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  |  |
| at 50 Hz full-scale value for signal<0> recognition                                     | 40 V   |
| at 60 Hz full-scale value for signal<0> recognition                                     | 40 V   |
| control supply voltage  | 40 V   |
|   | 90 V   |
| at AC initial value for signal <1> detection  | 5 Hz   |
| symmetrical line frequency tolerance  | 3 HZ   |
| control current at minimum control supply voltage                                       | 0 4  |
| • at AC   | 2 mA   |
| control current at AC rated value   | 15 mA  |
| ON-delay time   | 40 ms; additionally max. one half-wave   |
| OFF-delay time  | 40 ms; additionally max. one half-wave   |
| Auxiliary circuit   |  |
| type of switching contact   | normally open contact (NO)   |
| 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  |  |
| fastening method side-by-side mounting  | Yes  |
| fastening method  | screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 |
| design of the thread of the screw for securing the equipment                            | M4   |
| height  | 100 mm   |
| width   | 67 mm  |
| depth   | 141 mm   |
| Connections/ Terminals  |  |
| product component removable terminal for auxiliary and control circuit                  | Yes  |
| type of electrical connection   |  |
| • for main current circuit  | screw-type terminals   |
| for auxiliary and control circuit   | screw-type terminals   |
| type of connectable conductor cross-sections  | os on type terminate   |
| for main contacts   |  |
|   | 2v (4.5 2.5 mm²) 2v (2.5 6 mm²)  |
| — 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  |
| for AWG cables for main contacts  | 2x (14 10)   |
| connectable conductor cross-section for main contacts                                   |  |

| solid or stranded   | 1.5 6 mm²   |
|---|---|
| finely stranded with core end processing  | 1 10 mm²  |
| type of connectable conductor cross-sections  |   |
| 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)  |
| — finely stranded without core end processing   | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)  |
| for AWG cables for auxiliary and control contacts  AWG number of added connectable conductor group section for  | 1x (AWG 20 12)  |
| AWG number as coded connectable conductor cross section for<br>main contacts  | 10 14   |
| tightening torque   |   |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>   | 2 2.5 N·m   |
| for auxiliary and control contacts with screw-type terminals  | 0.5 0.6 N·m   |
| tightening torque [lbf·in]  |   |
| for main contacts with screw-type terminals   | 18 22 lbf-in  |
| for auxiliary and control contacts with screw-type terminals  | 4.5 5.3 lbf·in  |
| design of the thread of the connection screw  |   |
| • for main contacts   | M4  |
| of the auxiliary and control contacts   | M3  |
| stripped length of the cable  |   |
| • for main contacts   | 7 mm  |
| for auxiliary and control contacts  | 7 mm  |
| Electrical Safety   | IDOO  |
| protection class IP on the front according to IEC 60529   | IP20  |
| touch protection on the front according to IEC 60529  | finger-safe, for vertical contact from the front  |
| Ambient conditions  | 1,000 m   |
| installation altitude at height above sea level maximum   | 1 000 m   |
| ambient temperature   | -25 +60 °C  |
| <ul><li>during operation</li><li>during storage</li></ul>   | -25 +80 °C  |
| auring storage  | 00 · 00 · 0   |
|   |   |
| Electromagnetic compatibility   |   |
| Electromagnetic compatibility conducted interference  | 2 kV / 5 kHz behavior criterion 2   |
| Electromagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4  | 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2   |
| Electromagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC  |   |
| Electromagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  | 2 kV behavior criterion 2 1 kV behavior criterion 2   |
| Electromagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC  | 2 kV behavior criterion 2   |
| Electromagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to high-frequency radiation according to IEC 61000-   | 2 kV behavior criterion 2 1 kV behavior criterion 2   |
| conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to cinductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6   | 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1   |
| Electromagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to high-frequency radiation according to IEC 61000-4-6  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  conducted HF interference emissions according to   | 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 80 MHz 1 GHz 10 V/m, behavior criterion 1   |
| conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to high-frequency radiation according to IEC 61000-4-6  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2   | 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 80 MHz 1 GHz 10 V/m, behavior criterion 1 4 kV contact discharging / 8 kV air discharging, behavior criterion 2   |
| conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to high-frequency radiation according to IEC 61000-4-6  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  conducted HF interference emissions according to CISPR11   | 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 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  |
| conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to high-frequency radiation according to IEC 61000-4-6  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  conducted HF interference emissions according to CISPR11  field-bound HF interference emission according to CISPR11   | 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 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  |
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| Electromagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to high-frequency radiation according to IEC 61000-4-6  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  conducted HF interference emissions according to CISPR11  field-bound HF interference emission according to CISPR11  Short-circuit protection, design of the fuse link  manufacturer's article number  • of gS fuse for semiconductor protection at NH design usable  • of full range R fuse link for semiconductor protection at cylindrical design usable  • of back-up R fuse link for semiconductor protection at NH design usable  • of back-up R fuse link for semiconductor protection at NH design usable  • of back-up R fuse link for semiconductor protection at NH design usable   | 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 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 Class B for the domestic, business and commercial environments  3NE1802-0 5SE1350 3NE8017-1                  |
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#### Approvals Certificates

### **General Product Approval**

EMV





Confirmation







Test Certificates other Railway Environment

Special Test Certificate

Type Test Certificates/Test Report

Confirmation



Special Test Certificate

Environmental Confirmations

#### Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2340-1AA22

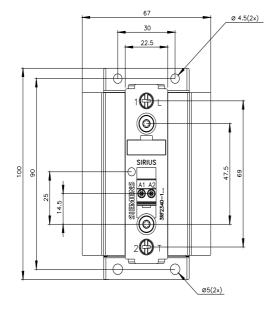
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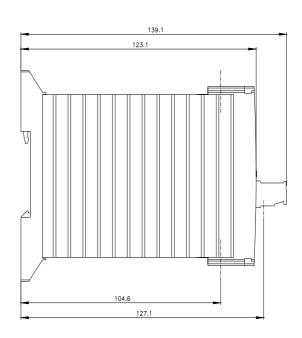
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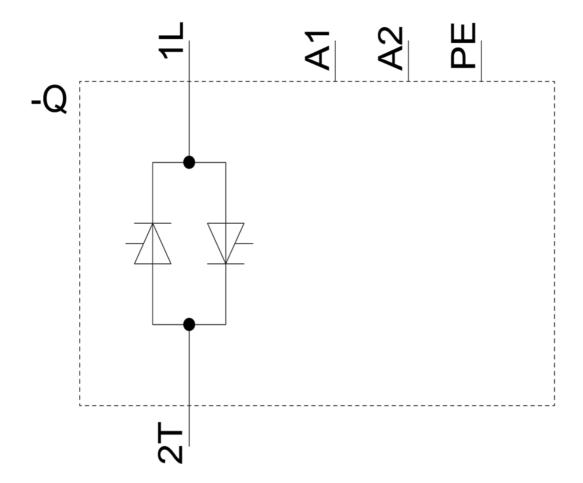
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https://support.industry.siemens.com/cs/ww/en/ps/3RF2340-1AA22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2340-1AA22&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2340-1AA22&lang=en</a>







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