SIEMENS

Data sheet

3RF2350-1AA24

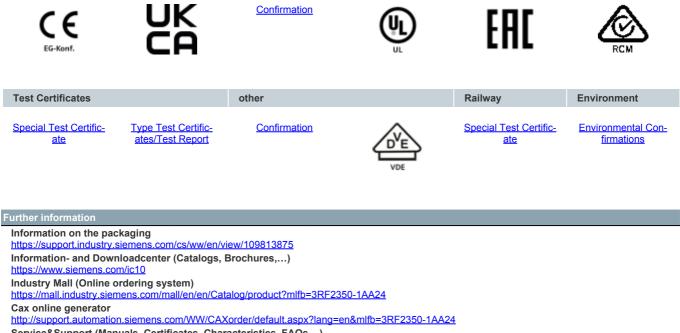


Solid-state contactor 1-phase 3RF2 AC 51 / 50 A / 40 $^\circ \rm C$ 48-460 V / 110-230 V AC screw terminal

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
 _1 of the accessories that can be ordered 	<u>3RF2900-3PA88</u>
 _4 of the accessories that can be ordered 	<u>3RF2950-0GA36</u>
product designation	
 _1 of the accessories that can be ordered 	terminal cover
 _4 of the accessories that can be ordered 	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 	54 W
 at AC in hot operating state per pole 	54 W
 without load current share typical 	3.5 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage	
 of the operating voltage 	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 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4
Weight	0.451 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	48 460 V
— at 60 Hz rated value	48 460 V

Operating areguines induces in two portains overage at AC - 000 V/L • et to b tz 40000 V • et to b tz 40000 V/////////////////////////////////	operating frequency rated value	50 60 Hz
• e180 hz 40000 V • e180 hz 40000 V operational corrent 50 A • e18 AC-51 rated value 100 V/us rate of voltage rise at the thyristor for main contacts 100 V/us reverse current of the thyristor 10 mA derating temperature 40 ° C Control accurrent of the thyristor 10 mA derating temperature 40 ° C • e18 D tr temperature 50 hz • a rated value 50 hz • a rated v	operating frequency rated value	00 00 HZ
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equipment 100 mm 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 screw-type terminals • for main current circuit screw-type terminals type of connectable conductor cross-sections e for main contacts - solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		to IEC 60715
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depth 141 mm Connections/ Terminals For auxiliary and control circuit product component removable terminal for auxiliary and control circuit Yes type of electrical connection screw-type terminals • for main current circuit screw-type terminals type of connectable conductor cross-sections e for main contacts • for main contacts - solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		
Connections/ Terminals product component removable terminal for auxiliary and control circuit Yes type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections offor main contacts solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		
product component removable terminal for auxiliary and control circuit Yes type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections screw-type terminals • for main contacts - solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)	-	141 mm
control circuit Image: second control circuit type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections screw-type terminals • for main contacts - solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		
• for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections screw-type terminals • for main contacts - solid - solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		Yes
for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections for main contacts — solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)	type of electrical connection	
type of connectable conductor cross-sections • • for main contacts - — solid 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)	for main current circuit	screw-type terminals
• for main contacts — solid 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²)	 for auxiliary and control circuit 	screw-type terminals
— solid 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²)	type of connectable conductor cross-sections	
	for main contacts	
- finely stranded with core end processing 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²	— 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)	 for AWG cables for main contacts 	2x (14 10)
connectable conductor cross-section for main contacts	connectable conductor cross-section for main contacts	

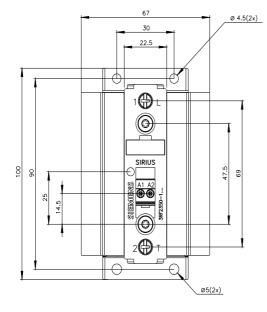
 solid or stranded 	1.5 6 mm²
 finely stranded with core end processing 	1 10 mm²
type of connectable conductor cross-sections	
 for auxiliary and control contacts 	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
- finely stranded without core end processing	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
 for AWG cables for auxiliary and control contacts 	1x (AWG 20 12)
AWG number as coded connectable conductor cross section for main contacts	10 14
tightening torque	
 for main contacts with screw-type terminals 	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	
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	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
 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 behavior criterion 2
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV behavior criterion 2
 due to high-frequency radiation according to IEC 61000- 4-6 	140 dBuV in the frequency range 0.15 80 MHz, 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	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link	Class B for the domestic, business and commercial environments
manufacturer's article number	
of gS fuse for semiconductor protection at NH design usable	<u>3NE1817-0</u>
 of full range R fuse link for semiconductor protection at cylindrical design usable 	<u>5SE1363</u>
 of back-up R fuse link for semiconductor protection at NH design usable 	<u>3NE1817-0</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	<u>3NC1450</u>
 of back-up R fuse link for semiconductor protection at 	<u>3NC2280</u>
cylindrical design 22 x 58 mm usable	
cylindrical design 22 x 58 mm usable manufacturer's article number	
	5SE2335: These fuses have a smaller rated current than the semiconductor relays
manufacturer's article number	

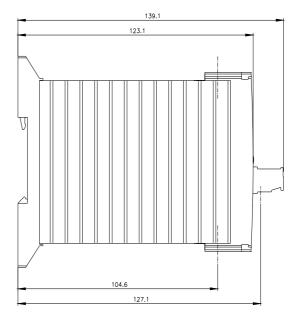


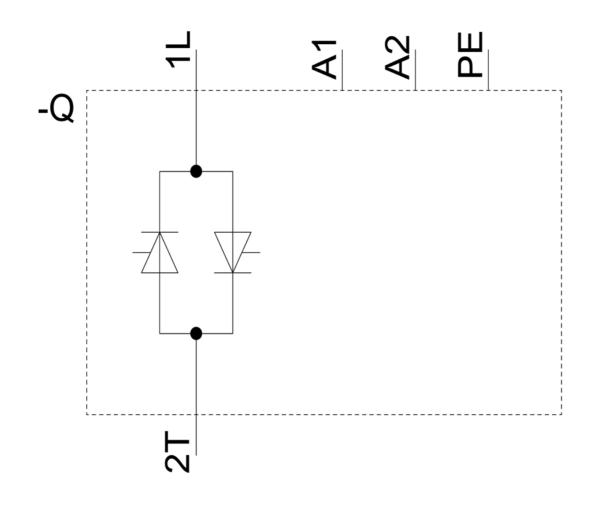
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