SIEMENS

Data sheet

3RF2330-1AA06



Solid-state contactor 1-phase 3RF2 AC 51 / 30 A / 40 $^\circ\text{C}$ 48-600 V / 24 V DC 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>
 _3 of the accessories that can be ordered 	<u>3RF2900-0EA18</u>
 _4 of the accessories that can be ordered 	<u>3RF2950-0GA16</u>
 _5 of the accessories that can be ordered 	<u>3RF2920-0FA08</u>
product designation	
 _1 of the accessories that can be ordered 	terminal cover
 _3 of the accessories that can be ordered 	converter
 _4 of the accessories that can be ordered 	load monitoring
 _5 of the accessories that can be ordered 	load monitoring, basis
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	33 W
 at AC in hot operating state per pole 	33 W
 without load current share typical 	0.4 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage	
 of the operating voltage 	AC
 of the control supply voltage 	DC
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)	05/28/2009
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	0.3 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	48 600 V
— at 60 Hz rated value	48 600 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
• at 50 Hz	40 660 V
• at 60 Hz	40 660 V
operational current	
• at AC-51 rated value	30 A
• at AC-51 according to IEC 60947-4-3	22 A
according to UL 508 rated value	27 A
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	1 600 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	600 A
l2t value maximum	1 800 A ² ·s
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage 1 at DC rated value maximum permissible	30 V
control supply voltage 1 at DC	15 24 V
control supply voltage	
 at DC initial value for signal <1> detection 	15 V
 at DC full-scale value for signal<0> recognition 	5 V
control current at minimum control supply voltage	
● at DC	13 mA
control current at DC rated value	15 mA
ON-delay time	1 ms; additionally max. one half-wave
OFF-delay time	1 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	95 mm
width	45 mm
depth	135.5 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	
 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
 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

• of availary and control contexts • (0, 5, 2, 5, mm), 2x (0, 5, 10 mm) • heay stranded with core and processing 1x (0, 5, 2, 5, mm), 2x (0, 5, 10 mm) • for AWS cables for availary and control contacts 1x (AWG 20, 12) AWG multiple are coded concluctor cross section for availary and control contacts 10, 14 Intermediate contacts with screw-type terminals 2 2, 5 Nm • for man contacts with screw-type terminals 10, 14 • for man contacts with screw-type terminals 10, 24 bin • for man contacts with screw-type terminals 10, 22 bin • for man contacts with screw-type terminals 10, 22 bin • for man contacts M4 • for man contacts M4 • for man contacts M4 • for man contacts 7 mm • for availary and control contacts 100 div • for availary	type of connectable conductor cross-sections	
	 for auxiliary and control contacts 	
- fiely strandsd without core end processing for AWG cables for auxilary and control contacts is (AWG 2u. 12) AWG numbers as coded connectable conductor cross section for min contacts if priprinting cores if or main contacts with scree-type termines if priprinting cores if or main contacts with scree-type termines if priprinting cores if or main contacts with scree-type termines if or main contacts with contacts with contacts if or main contacts with contacts with scree-type if or main contacts with contacts with scree-type if or main contacts with contacts with contacts if or main contacts with contacts if or main contacts with contacts if or main contaccording to IEC 60029 if or main contacts if or m	— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
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main contacts Image: contacts with screew-type if prioring or que (Ibf in) 2 2 5 N m if or main contacts with screew-type terminals 2 2 5 N m if or main contacts with screew-type terminals 8 22 Ibf in if or main contacts with screew-type terminals 8 22 Ibf in if or main contacts with screew-type terminals 4 22 Ibf in if or main contacts with screew-type terminals 7 53 Ibf in if or main contacts M3 stringped length or the contect contacts M3 stringped length or the contect contacts 7 mm if or main contacts 7 mm if or main contacts 9 regression.for writerial contact from the front if or main contacts 9 regression.for writerial contact from the front if or main contacts 9 regression.for writerial contact from the front if or main contacts 9 regression.for writerial contact from the front if or main contacts 9 regression.for writerial contact from the front if or main contacts 9 regression.for writerial contact from the front if or main contacts 9 regression.for writerial contact from the front if or main contacts 9	 for AWG cables for auxiliary and control contacts 	1x (AWG 20 12)
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	design of the thread of the connection screw	
stripped length of the cable 7 mm or main contacts 7 mm or an incontacts 7 mm core auxiliary and control contacts 7 mm Electrical Safety IP20 protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front installation altitude at height above sea level maximum 1 000 m ambient temperature - - utring operation -25 +60 °C - during storage -55 +60 °C - due to burst according to IEC 61000-4.4 2 kV/5 kHz behavior criterion 2 - due to burst according to IEC 61000-4.5 2 kV behavior criterion 2 - due to burst according to IEC 61000-4.5 2 kV behavior criterion 2 - due to burst according to IEC 61000-4.2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 - def- -6 61000-4.2 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 - for during and thur for semiconductor protection at cylind	 for main contacts 	M4
• for main contacts 7 mm • for auxiliary and control contacts 7 mm Electrical Safely Feature Safely protection class IP on the front according to IEC 60529 IP20 installation allitude at height above sea level maximum 1 000 m ambient temperature - 40 °C • during storage - 25 + 60 °C • during storage - 26 · + 60 °C • during storage - 26 · + 60 °C • during storage - 26 · + 60 °C • during storage - 26 · + 60 °C • during storage - 26 · + 60 °C • during storage - 26 · + 60 °C • during storage - 26 · + 60 °C <td> of the auxiliary and control contacts </td> <td>M3</td>	 of the auxiliary and control contacts 	M3
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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 imblent conditions installation altitude at height above sea level maximum 1 000 m ambient temperature - - • during operation -25+60 °C • during storage -55+80 °C • due to burst according to IEC 61000-44 2 KV / 5 KHz behavior criterion 2 • due to conductor-earth surge according to IEC 61000-45 2 KV behavior criterion 2 • due to conductor-conductor surge according to IEC 61000-45 2 KV behavior criterion 2 • due to conductor-conductor surge according to IEC 61000-45 40 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 • due to conductor-earth surge according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 • due to conductor-earth surge according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 • due to conductor-earth surge according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 • due to conductor-earth surge according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 • dectorostic discharge according to IEC 61000-4-3 80 MHz 1 GHz 10 V/m, behavior criterion 1 </td <td> for auxiliary and control contacts </td> <td>7 mm</td>	 for auxiliary and control contacts 	7 mm
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front installation altitude at height above sea level maximum 1000 m installation altitude at height above sea level maximum 1000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C idectromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-5 2 kV / 5 kHz behavior criterion 2 • due to conductor-conductor surge according to IEC 61000-4-5 2 kV / 5 kHz behavior criterion 2 • due to conductor-conductor surge according to IEC 61000-4-5 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 • due to high-frequency radiation according to IEC 61000-4-2 4 kV contact discharging / 8 kV air discharging, behavior criterion 1 • delectrostatic discharge according to IEC 61000-4-2 4 kV contact discharging / 8 kV air discharging, behavior criterion 1 • deletrostatic discharge according to IEC 61000-4-2 Class A for industrial environment Class A for industrial environment Class A for industrial environment field-board HF interference emission according to CISPR11 SNE1803-0 hort-circuit protection, design of the fuse link	Electrical Safety	
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installation altitude at height above sea level maximum 1 000 m ambient temperature -25 +60 °C • during storage -25 +60 °C • during storage -55 +80 °C • due to compatibility -25 +60 °C • due to burst according to IEC 61000-4-4 2 KV / 5 KHz behavior criterion 2 • due to conductor-conductor surge according to IEC 61000-4-5 2 KV / 5 KHz behavior criterion 2 • due to conductor-conductor surge according to IEC 61000-4-5 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 • due to high-frequency radiation according to IEC 61000-4-2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 • due to high-frequency radiation according to IEC 61000-4-2 4 KV contact discharging / 8 KV air discharging, behavior criterion 2 conducted HF interference emissions according to IEC 61000-4-2 4 KV contact discharging / 8 KV air discharging, behavior criterion 2 conducted HF interference emission according to CISPR11 Class A for industrial environment field-bound HF interference emission according to CISPR11 Class B for the domestic, business and commercial environments ibtrot-tricuit protection, dasign of the fuse link 3NE1803-0 of gas fuse for semiconductor protection at cylindrical design 10 × 38 mm usable 3NE1803-1 of back-up R fus	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
ambient temperature	Ambient conditions	
• during operation • during storage-25 +60 °C• during storage-55 +80 °C• due to compatibility-55 +80 °C• due to burst according to IEC 61000-4.4 • due to conductor-cardth surge according to IEC 61000-4.5 • due to conductor-conductor surge according to IEC 61000-4.5 • due to bigh-frequency radiation according to IEC 61000-4.5 • due to bigh-frequency radiation according to IEC 61000-4.5 • due to bigh-frequency radiation according to IEC 61000-4.5 	installation altitude at height above sea level maximum	1 000 m
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conducted interference due to burst according to IEC 61000-4-4 due to conductor-cearth 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 61000-4-5 due to high-frequency radiation according to IEC 61000-4-3 due to high-frequency radiation according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 4 KV behavior criterion 1 80 MHz 1 GHz 10 V/m, behavior criterion 1 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 class A for industrial environment Class A for industrial environment Stort-circuit protection, dosign of the fuse link of gS fuse for semiconductor protection at NH design usable of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 12 x 51 mm usable of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable at NIH design usable<	during storage	-55 +80 °C
• due to burst according to IEC 61000-4-42 kV / 5 kHz behavior criterion 2• due to conductor-cearth surge according to IEC 61000-4-52 kV behavior criterion 2• due to conductor-conductor surge according to IEC 61000- 4-61 kV behavior criterion 2• due to high-frequency radiation according to IEC 61000- 4-6140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1feld-based interference according to IEC 61000-4-380 MHz 1 GHz 10 V/m, behavior criterion 1electrostatic discharge according to IEC 61000-4-380 MHz 1 GHz 10 V/m, behavior criterion 1conducted HF interference emissions according to CISPR1Class A for industrial environmentfeld-baud HF interference emission according to CISPR1Class B for the domestic, business and commercial environmentsshort-circuit protection, design of the fuse linkSNE1803-0manufacturer's article numberSNE1803-0• of gS fuse for semiconductor protection at cylindrical design 10 x 38 mm usableSNE1803-1• of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usableSNE1032• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usableSNC1032• of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usableSNA6807-6. These fuses have a smaller rated current than the semiconductor relays	Electromagnetic compatibility	
• due to conductor-earth surge according to IEC 61000-4-52 kV behavior criterion 2• due to conductor-conductor surge according to IEC 61000-4-51 kV behavior criterion 2• due to high-frequency radiation according to IEC 61000- 4-6140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1• due to high-frequency radiation according to IEC 61000-4-380 MHz 1 GHz 10 V/m, behavior criterion 1• due to high-frequency radiation according to IEC 61000-4-24 kV contact discharging / 8 kV air discharging, behavior criterion 2• due to the frequency range 0.15 80 MHz, behavior criterion 1140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1• due to thigh-frequency radiation according to IEC 61000-4-24 kV contact discharging / 8 kV air discharging, behavior criterion 2• due to the finterference emission according to CISPR11Class A for industrial environment• field-bound HF interference emission according to CISPR11Class B for the domestic, business and commercial environments• of gS fuse for semiconductor protection at NH design usable3NE1803-0• of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable3NE1803-1• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 61 mm usable3NC1032• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 61 mm usable3NC1450• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable3NC1450• of back-up R fuse link for semiconductor protection at cylindrical design 12 x 56 mm usable3NC2250• of back-up	conducted interference	
• due to conductor-conductor surge according to IEC 61000-4-51 kV behavior criterion 2• due to high-frequency radiation according to IEC 61000- 4-6140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-280 MHz 1 GHz 10 V/m, behavior criterion 1electrostatic discharge according to IEC 61000-4-2 conducted HF interference emission according to CISPR11 field-bound HF interference emission according to CISPR11Class A for industrial environmentfield-bound HF interference emission according to CISPR11 short-circuit protection, design of the fuse linkClass B for the domestic, business and commercial environmentsshort-circuit protection, design of the fuse link3NE1803-0manufacturer's article number • of gS fuse for semiconductor protection at cylindrical design usable3NE1803-0• of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable3NC1032• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable3NC1450• of back-up R fuse link for semiconductor protection at cylindrical design 12 x 58 mm usable3NC1450• of back-up R fuse link for semiconductor protection at cylindrical design 12 x 58 mm usable3NC1450• of back-up R fuse link for semiconductor protection at cylindrical design 12 x 51 mm usable3NC1450• of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable3NC1450• of back-up R fuse link for semiconductor protection at cylindrical design 12 x 51 mm usable3NC1450 <tr< td=""><td> due to burst according to IEC 61000-4-4 </td><td>2 kV / 5 kHz behavior criterion 2</td></tr<>	 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2
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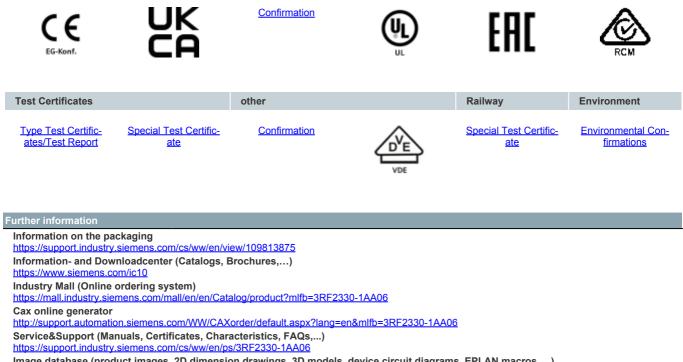
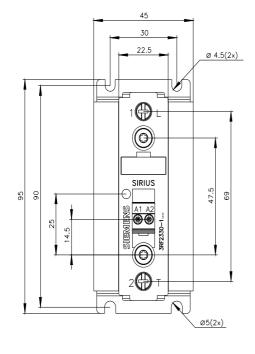
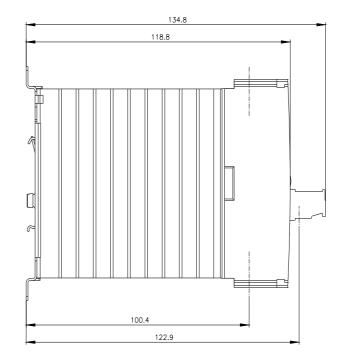
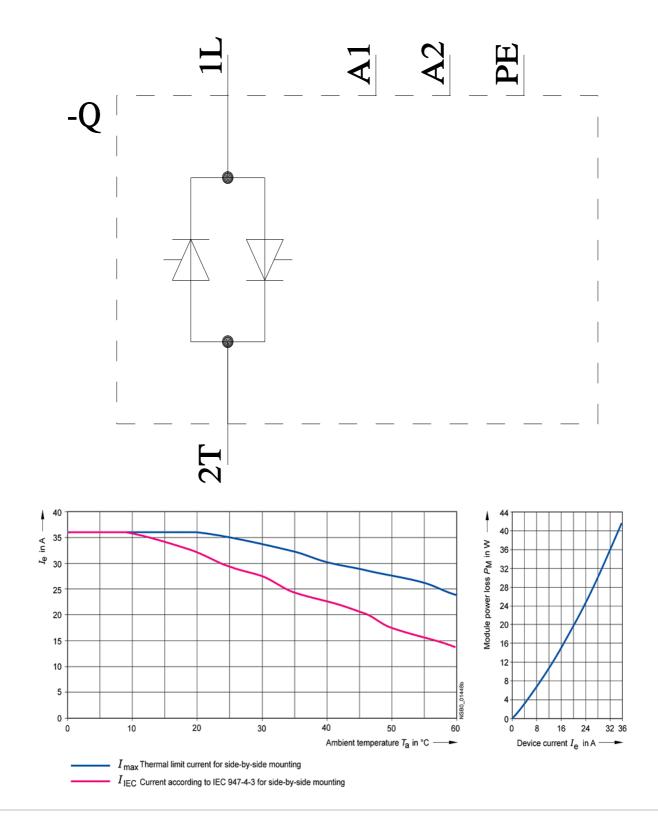


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