SIEMENS

Data sheet

3RF2330-3AA26



Solid-state contactor 1-phase 3RF2 AC 51 / 30 A / 40 $^\circ C$ 48-600 V / 110-230 V AC Ring cable connection

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 	33 W
 at AC in hot operating state per pole 	33 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	IP00
protection class IP on the front according to IEC 60529	IP00
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	0.298 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

energing frequency rated value	50 60 Hz
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	40 000 \/
• 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
I2t value maximum	1 800 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	00112
at 50 Hz full-scale value for signal<0> recognition	40 V
• at 60 Hz full-scale value for signal <0> recognition	40 V
	TU V
control supply voltage	90 V
at AC initial value for signal <1> detection	
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; 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	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	Ring cable lug connection
for auxiliary and control circuit	ring terminal lug connection
type of connectable conductor cross-sections	
for main contacts for JIS cable lug	JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
for DIN cable lug for main contacts	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
type of connectable conductor cross-sections	Dire TOZOT TOTZ,0, TOTU, TOTIO, TOTEO
for auxiliary and control contacts	$4v (0 = -2 = mm^2) 2v (0 = -4.0 mm^2)$
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

other Environment	
ເເ UK ທ	LUL A <u>Type Test Certific</u> <u>ates/Test Report</u>
General Product Approval	EMV Test Certificates
pprovals Certificates	
• at NH design usable	<u>3NA6807-6; These fuses have a smaller rated current than the semiconducto</u> relays
manufacturer's article number of the gG fuse	
of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable	<u>3NC2250</u>
• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable	<u>3NC1450</u>
cylindrical design 10 x 38 mm usable	
of back-up R fuse link for semiconductor protection at of back-up R fuse link for semiconductor protection at	<u>3NC1032</u>
 of hair ange is use init for semiconductor protection at cylindrical design usable of back-up R fuse link for semiconductor protection at NH 	<u>3NE8003-1</u>
 of gS fuse for semiconductor protection at NH design usable of full range R fuse link for semiconductor protection at 	<u>3NE1803-0</u> <u>5SE1335</u>
nanufacturer's article number	20151202.0
ort-circuit protection, design of the fuse link	
ield-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
conducted HF interference emissions according to CISPR11	Class A for industrial environment
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
ield-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1
• due to high-frequency radiation according to IEC 61000- 4-6	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2
due to conductor-earth surge according to IEC 61000-4-5	2 kV behavior criterion 2
due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
onducted interference	
ectromagnetic compatibility	
during storage	-55 +80 °C
during operation	-25 +60 °C
mbient temperature	
nstallation altitude at height above sea level maximum	1 000 m
nbient conditions	
ouch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
rotection class IP on the front according to IEC 60529	IP00; IP20 with cover
Electrical Safety	
 for auxiliary and control contacts 	10 mm
for main contacts	10 mm
tripped length of the cable	
 of the auxiliary and control contacts 	M3
 esign of the thread of the connection screw for main contacts 	M5
for auxiliary and control contacts with screw-type terminals	4.5 5.3 lbf·in
ightening torque [lbf·in]	-
 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m
 for main contacts with screw-type terminals 	2 2.5 N·m
ghtening torque	(AVVO 20 12)
 finely stranded without core end processing for AWG cables for auxiliary and control contacts 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12)
 finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
.	



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=3RF2330-3AA26

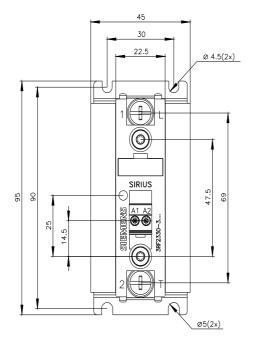
Cax online generator

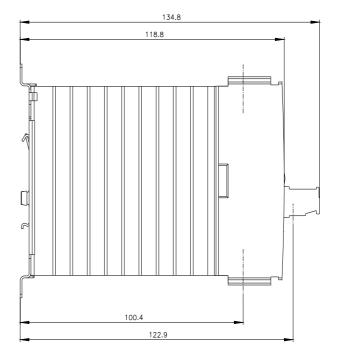
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2330-3AA26

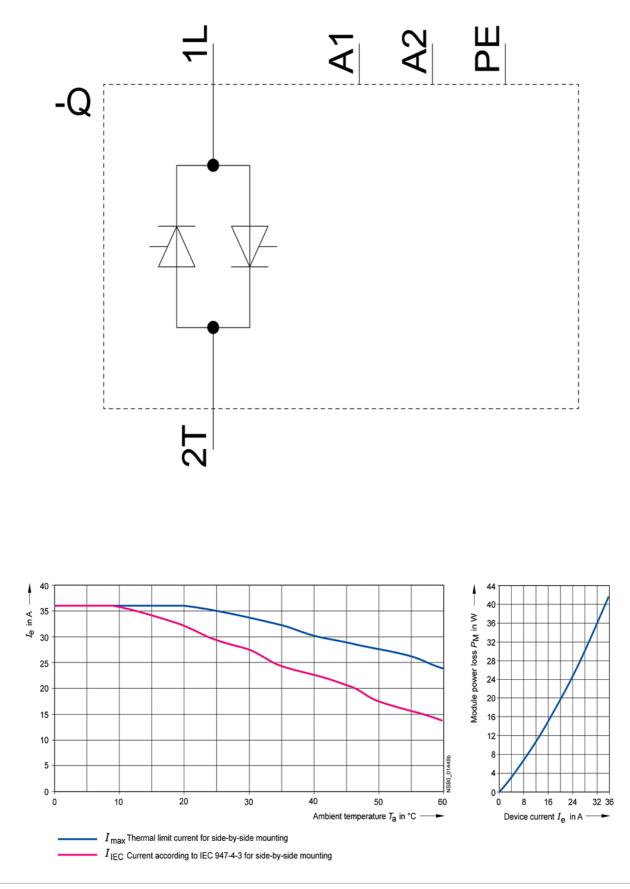
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2330-3AA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2330-3AA26&lang=en







last modified:

4/2/2025 🖸

Subject to change without notice © Copyright Siemens

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RF23303AA26