SIEMENS

Data sheet

3RF2330-1AA02



Solid-state contactor 1-phase 3RF2 AC 51 / 30 A / 40 $^\circ\text{C}$ 24-230 V / 24 V DC screw terminal

product brand name SIRUS product designation solid-state contactor design of the product single-phase product type designation 3RF23 manufacturer's article number		
design of the product single-phase product type designation 3RF233 manufacturors anticle number 3RF2800_3PA88 •_1 of the accessories that can be ordered 3RF2800_4EA18 •_3 of the accessories that can be ordered 3RF2800_4EA18 •_5 of the accessories that can be ordered 3RF2800_4EA18 •_5 of the accessories that can be ordered 3RF2800_4EA18 •_1 of the accessories that can be ordered 3RF2800_4EA18 •_3 of the accessories that can be ordered converter •_3 of the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the accessories that can be ordered load monitoring 0 ad the curent the accessories th	product brand name	SIRIUS
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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 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	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 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 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	protection class IP	IP20
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 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	protection class IP on the front according to IEC 60529	IP20
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 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	shock resistance according to IEC 60068-2-27	15g / 11 ms
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 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	vibration resistance according to IEC 60068-2-6	2g
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 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	reference code according to IEC 81346-2	Q
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	Substance Prohibitance (Date)	05/28/2009
Main circuit 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	Weight	0.3 kg
number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	Main circuit	
number of NC contacts for main contacts 0	number of poles for main current circuit	1
	number of NO contacts for main contacts	1
type of voltage of the operating voltage AC	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 range relative to the operating voltage at AC	
• at 50 Hz	20 253 V
• at 60 Hz	20 253 V
operational current	20.4
at AC-51 rated value	30 A
at AC-51 according to IEC 60947-4-3	22 A 27 A
according to UL 508 rated value	27 A 500 mA
operational current minimum rate of voltage rise at the thyristor for main contacts	1 000 V/µs
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	600 A
l2t value maximum	1 800 A²·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 Auxiliary circuit	1 ms; additionally max. one half-wave
	normally open contact (NO)
	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	M4
equipment	
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 mm ²), 2x (2.5 6 mm ²)
- finely stranded with core end processing	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²
for AWG cables for main contacts	2x (14 10)
connectable conductor cross-section for main contacts solid or stranded 	1.5 6 mm²
 solid of stranded finely stranded with core end processing 	1.5 6 mm²
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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 	1x (AWG 20 12)		
AWG number as coded connectable conductor cross section for	10 14		
main contacts			
tightening torque	0.051		
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	1 kV behavior criterion 2		
61000-4-5			
 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		
	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment		
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to			
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		
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		
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	Class A for industrial environment		
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	Class A for industrial environment Class B for the domestic, business and commercial environments		
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	Class A for industrial environment Class B for the domestic, business and commercial environments <u>3NE1803-0</u>		
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Approvals Certificates						
General Product Appro	oval				EMV	
CE EG-Konf.	UK CA	<u>Confirmation</u>		EHC	RCM	
Test Certificates		other		Railway	Environment	
Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Confirmation</u>	UDE VDE	<u>Special Test Certific-</u> <u>ate</u>	Environmental Con- firmations	

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=3RF2330-1AA02

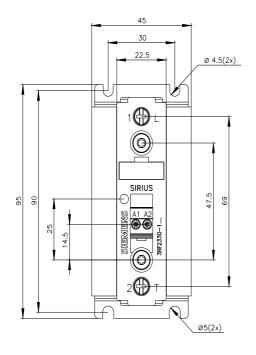
Cax online generator

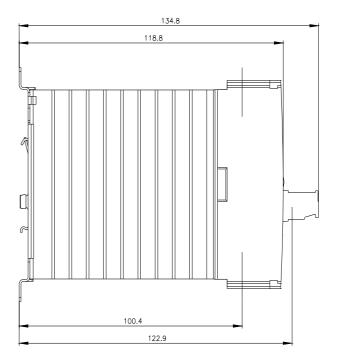
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2330-1AA02

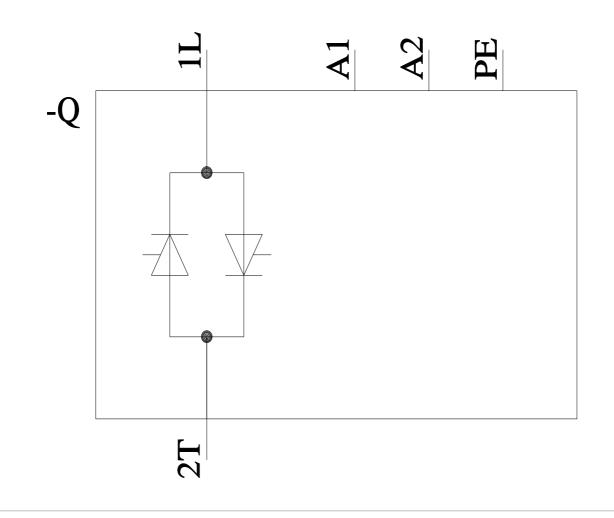
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2330-1AA02

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2330-1AA02&lang=en







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