SIEMENS

Data sheet 3RF2330-3AA04



Solid-state contactor 1-phase 3RF2 AC 51 / 30 A / 40 $^{\circ}\text{C}$ 48-460 V / 24 V DC Ring cable connection

product type designation design of the product product type designation manufacturer's article number • _1 of the accessories that can be ordered _3 of the accessories that can be ordered _4 of the accessories that can be ordered _3 of the accessories that can be ordered _4 of the accessories that can be ordered _5 of the correlation of the accessories that can be ordered _5 of the operating voltage _6 o	product brand name	SIRIUS
product type designation manufacturer's article number	product designation	solid-state contactor
manufacturer's article number 1 of the accessories that can be ordered 3RF2900.3PA88 3 of the accessories that can be ordered 3RF2900.0EA18 4 of the accessories that can be ordered 3RF2900.0EA18 4 of the accessories that can be ordered 3RF2900.0EA18 5 of the accessories that can be ordered 5RF2900.0EA18 6 of the accessories that can be ordered 5RF2900.0EA18 7 of the accessories that can be ordered 5RF2900.0EA18 8 of the accessories that can be ordered 5RF2900.0EA18 9 of the accessories that can be ordered 5RF2900.0EA18 10 of the accessories that can be orde	design of the product	single-phase
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degree of pollution type of voltage of the operating voltage of the control supply voltage surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 tibg / 11 ms vibration resistance according to IEC 60068-2-6 greference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 reference code according to IEC 81346-2 qreference code according to IEC 81346-2 Queference code according to IEC 81346-2 Queference code according to IEC 81346-2 Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NO contacts for main contacts 1 number of NC contacts for main contacts 1 type of voltage of the operating voltage AC operating voltage	 without load current share typical 	0.4 W
type of voltage • of the operating voltage • of the control supply voltage 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 reference code according to IEC 60068-2-6 reference code according to IEC 750 reference code according to IEC 81346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 Main circuit number of Poles for main current circuit number of NO contacts for main contacts 1 number of NC contacts for main contacts type of voltage of the operating voltage AC AC OPERATOR ACC OPERATOR ACC OPERATOR ACC ACC OPERATOR ACC ACC ACC ACC ACC ACC ACC ACC	insulation voltage rated value	600 V
of the operating voltage of the control supply voltage surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 reference code according to EN 61346-2 Q reference code according to EN 61346-2 Q Substance Prohibitance (Date) 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 Main circuit	degree of pollution	3
of the control supply voltage surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-7 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NC contacts for main contacts type of voltage of the operating voltage of the control value 6 kV 6 kV 8 voltage of the operating voltage DC 6 kV 8 voltage of the operating voltage OA AC OA 15g / 11 ms C vibral NA C vibral SVHC SUBC SUBC SUBC SUBC SUBC SUBC SUBC SUBC	type of voltage	
surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 tipation resistance according to IEC 60068-2-6 reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 reference code according to EN 61346-2 quad reference code according to IEC 81346-2 Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NO contacts for main contacts 1 number of NC contacts for main contacts 1 type of voltage of the operating voltage AC operating voltage	 of the operating voltage 	AC
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vibration resistance according to IEC 60068-2-6 reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NC contacts for main contacts 1 number of NC contacts for main contacts type of voltage of the operating voltage AC operating voltage	surge voltage resistance of main circuit rated value	6 kV
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage of the operating voltage AC operating voltage	shock resistance according to IEC 60068-2-27	15g / 11 ms
to IEC 204-2 according to IEC 750 reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage of the operating voltage operating voltage	vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2 Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage of the operating voltage AC operating voltage		К
Substance Prohibitance (Date) 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 Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage of the operating voltage AC operating voltage	reference code according to EN 61346-2	Q
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 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	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 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	Substance Prohibitance (Date)	07/01/2006
number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage of the operating voltage operating voltage	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
number of NO contacts for main contacts number of NC contacts for main contacts type of voltage of the operating voltage AC operating voltage	Main circuit	
number of NC contacts for main contacts type of voltage of the operating voltage AC operating voltage	number of poles for main current circuit	1
type of voltage of the operating voltage AC operating voltage	number of NO contacts for main contacts	1
operating voltage	number of NC contacts for main contacts	0
	type of voltage of the operating voltage	AC
• at AC	operating voltage	
	• at AC	

of EO Hy refer division	49 460 V		
— at 50 Hz rated value	48 460 V		
— at 60 Hz rated value	48 460 V		
operating frequency rated value	50 60 Hz		
operating range relative to the operating voltage at AC			
● at 50 Hz	40 506 V		
● at 60 Hz	40 506 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	1 200 V		
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value	600 A		
I2t 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		
• Tateu value maximum permissible	15 24 V		
control supply voltage	10 2T V		
	15 V		
at DC full scale value for signal <1> detection at DC full scale value for signal <0> recognition.	15 V 5 V		
at DC full-scale value for signal<0> recognition	5 V		
control current at minimum control supply voltage	40 4		
• 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			
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		
	95 mm		
height			
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			
 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)		
·			
tigritering torque			
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 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	M5		
 of the auxiliary and control contacts 	M3		
stripped length of the cable			
• for main contacts	10 mm		
for auxiliary and control contacts	10 mm		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP00; IP20 with cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover		
Ambient conditions	iniger care, for rection contact from the field man core.		
	1 000 m		
installation altitude at height above sea level maximum	1 000 111		
ambient temperature	25 160 °C		
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, behare	vior 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, behavio	r criterion 2	
conducted HF interference emissions according to CISPR11	Class A for industrial environment		
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial env	ironments	
Short-circuit protection, design of the fuse link			
manufacturer's article number			
 of gS fuse for semiconductor protection at NH design usable 	3NE1803-0		
 of full range R fuse link for semiconductor protection at cylindrical design usable 	<u>5SE1335</u>		
 of back-up R fuse link for semiconductor protection at NH design usable 	3NE8003-1		
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	3NC1032		
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	3NC1450		
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2263		
manufacturer's article number of the gG fuse			
at NH design usable	3NA6807; These fuses have a smaller rated current than the semiconductor relays		
• at cylindrical design 14 x 51 mm usable	3NW6105-1: These fuses have a smaller rated current than the semiconductor relays		
• at cylindrical design 22 x 58 mm usable	3NW6205-1: These fuses have a smaller rated current than the semiconductor relays		
manufacturer's article number			
• of DIAZED fuse usable	5SB2711; These fuses have a smaller rated current that relays	n the semiconductor	
of NEOZED fuse usable	5SE2320: These fuses have a smaller rated current than the semiconductor relays		
Approvals Certificates			
General Product Approval		EMV	





Confirmation







Test Certificates

other

Environment

Type Test Certificates/Test Report

Confirmation



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=3RF2330-3AA04

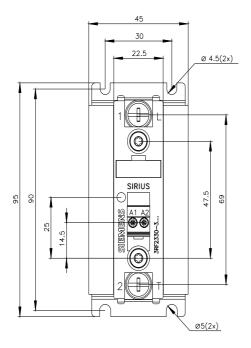
Cax online generator

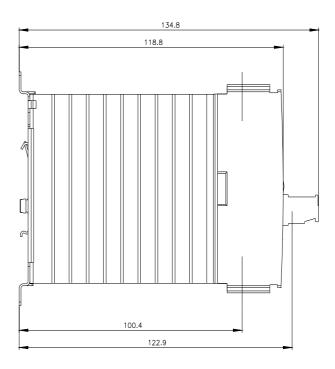
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2330-3AA04

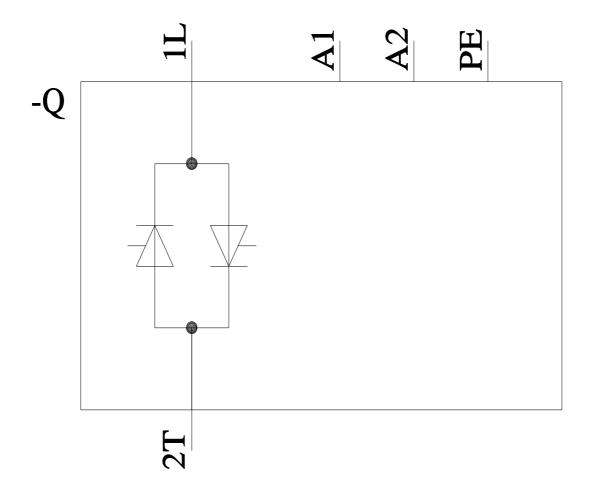
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2330-3AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2330-3AA04&lang=en







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