SIEMENS

Data sheet 3RF23 30-1BA04



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 30A / AC15 15A 40 DEG. C 48-460 V / 24 V DC SCREW CONNECTION INSTANTANEOUS SWITCHING

General technical data:	
product brand name	SIRIUS
Product designation	solid-state contactor
Product function	instantaneous switching
Number of poles for main current circuit	1
Protection class IP	IP20
Product designation _1 of the accessories that can be ordered	terminal cover
Manufacturer article number _1 of the accessories that can be ordered	3RF2900-3PA88
Product designation _2 of the accessories that can be ordered	power regulator
Manufacturer article number _2 of the accessories that can be ordered	3RF2950-0HA16
Product designation _3 of the accessories that can be ordered	converter
Manufacturer article number _3 of the accessories that can be ordered	3RF2900-0EA18
Product designation _4 of the accessories that can be ordered	load monitoring

that can be ordered Product designation _5 of the accessories that can be ordered Manufacturer article number _5 of the accessories that can be ordered Ambient temperature • during operation • during storage Installation altitude at height above sea level maximum Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Equipment marking acc. to IEC 60068-2-7 Is gipment marking acc. to IEC 60068-2-8 Is gipment marking acc. to IEC 60068-2-9 Is gipment marking	Manufacturer article number _4 of the accessories		3RF2950-0GA16
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AC • at 50 Hz • at 60 Hz V 40 506 Operating frequency Rated value Insulation voltage Rated value Rate of voltage rise at the thyristor for main contacts maximum permissible Blocking voltage at the thyristor for main contacts W/µs T 200 Reverse current of the thyristor Perating temperature C 40 Active power loss total typical Surge current resistance Rated value V 40 506 V 40 506 V 50 60 Insulation voltage Rated value V 600 T 200	• at 60 Hz Rated value	V	48 460
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Insulation voltage Rated value Rate of voltage rise at the thyristor for main contacts maximum permissible Blocking voltage at the thyristor for main contacts with maximum permissible Reverse current of the thyristor Derating temperature C 40 Active power loss total typical Surge current resistance Rated value V 600 V/µs 1 000 T 200 MA 10 Derating temperature C 40 Active power loss total typical A 600			
Rate of voltage rise at the thyristor for main contacts maximum permissible Blocking voltage at the thyristor for main contacts waximum permissible Reverse current of the thyristor mA 10 Derating temperature °C 40 Active power loss total typical W 33 Surge current resistance Rated value A 600			
maximum permissible Blocking voltage at the thyristor for main contacts			
maximum permissible Reverse current of the thyristor Derating temperature °C 40 Active power loss total typical Surge current resistance Rated value A 600	maximum permissible		
Derating temperature °C 40 Active power loss total typical Surge current resistance Rated value A 600	•	V	1 200
Active power loss total typical W 33 Surge current resistance Rated value A 600	Reverse current of the thyristor	mA	10
Surge current resistance Rated value A 600	Derating temperature	°C	40
	Active power loss total typical	W	33
I2t value maximum A ² ·s 1 800		Α	600
	I2t value maximum	A ² ·s	1 800

Sented since it Control		
Control circuit/ Control: Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• at DC		
Initial rated value	V	15
— Final rated value	V	24
Control supply voltage		
at DC Full-scale value for signal<0> recognition	V	5
Control current		
at minimum control supply voltage		
— at DC	mA	2
at DC Rated value	mA	15
3. 30 1 10.00 10.00		
nstallation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Mounting type Side-by-side mounting		Yes
Design of the thread of the screw for securing the		M4
equipment		
Tightening torque of the screw for securing the equipment	N·m	1.5
Width	mm	45
Height	mm	100
Depth	mm	156
Connections/ Terminals:		
Type of electrical connection for main current circuit		screw-type terminals
Design of the thread of the connection screw for main contacts		M4
Tightening torque for main contacts with screw-type terminals	N·m	2 2.5
Tightening torque [lbf·in] for main contacts with	lbf·in	18 22
screw-type terminals		
Type of connectable conductor cross-section 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

Type of connectable conductor cross-section

— for auxiliary and control contacts

Type of connectable conductor cross-section for

• for AWG conductors

auxiliary and control contacts

- for main contacts

2x (14 ... 10)

1x (AWG 20 ... 12)

• 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)
 without core end processing 		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Connectable conductor cross-section		
• for main contacts		
 single or multi-stranded 	mm²	1.5 6
— finely stranded		
 — with core end processing 	mm²	1 10
 for auxiliary and control contacts 		
— solid	mm²	0.5 2.5
— finely stranded		
 — with core end processing 	mm²	0.5 2.5
 — without core end processing 	mm²	0.5 2.5
AWG number as coded connectable conductor cross		
section		
• for main contacts		10 14
 for auxiliary and control contacts 		20 12
Type of electrical connection for auxiliary and control current circuit		screw-type terminals
Design of the thread of the connection screw of the auxiliary and control contacts		M3
Wire stripping length of the cable		
• for main contacts	mm	7
 for auxiliary and control contacts 	mm	7
Tightening torque for auxiliary and control contacts with screw-type terminals	N·m	0.5 0.6
Tightening torque [lbf-in] for auxiliary and control contacts with screw-type terminals	lbf∙in	4.5 5.3

Certificates/ approvals:

General Product Approval EMC Declaration of Conformity Certificates











Typprüfbescheinigu ng/Werkszeugnis

Test Certificates	other
spezielle	Umweltbestätigung

Prüfbescheinigunge

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Further information

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cd-static/material/info/3RF23_eng.pdf

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

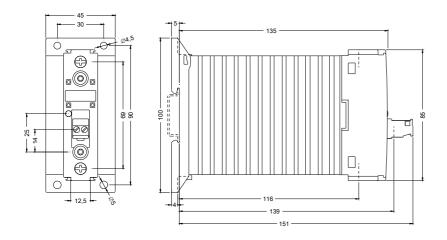
Cax online generator

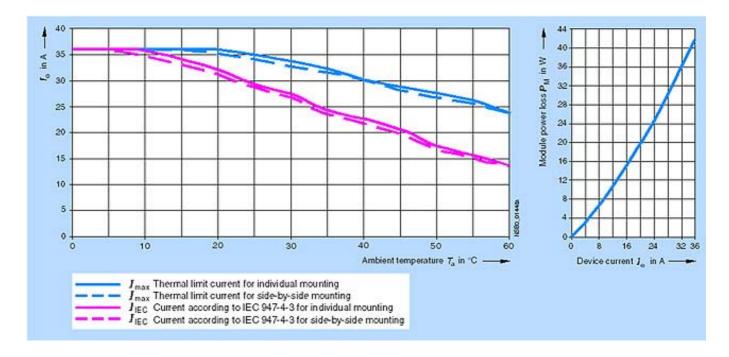
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23301BA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF23301BA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23301BA04&lang=en





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