SIEMENS

Data sheet 3RF23 30-1BA44



SEMI-COND. CONTACTOR 3RF2,1-PH. AC51 30 A / AC15 15A 40 DEG. C 48-460V / 4-30V DC SCREW TERMINAL 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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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

Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• at DC		
— Initial rated value	V	4
— Final rated value	V	24
Control supply voltage		
at DC Full-scale value for signal<0> recognition	V	1
Control current		
• at DC Rated value	mA	20
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 screw-type terminals	lbf·in	18 22
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 AWG conductors		
— for main contacts		2x (14 10)
— for auxiliary and control contacts		1x (AWG 20 12)

• solid

Type of connectable conductor cross-section for

auxiliary and control contacts

• finely stranded

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)

 — 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	N·m	0.5 0.6
with screw-type terminals		
Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	lbf∙in	4.5 5.3
oonada mar ooron-typo torriiridio		

Certificates/ approvals:

General Product Approval EMC Declaration of Test
Conformity Certificates











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Test	other
Certificates	

Typprüfbescheinigu Umweltbestätigung ng/Werkszeugnis

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

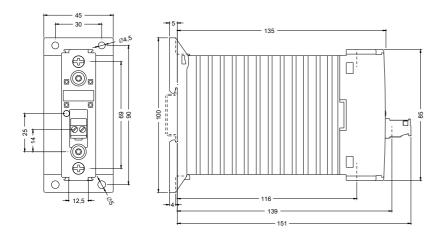
Cax online generator

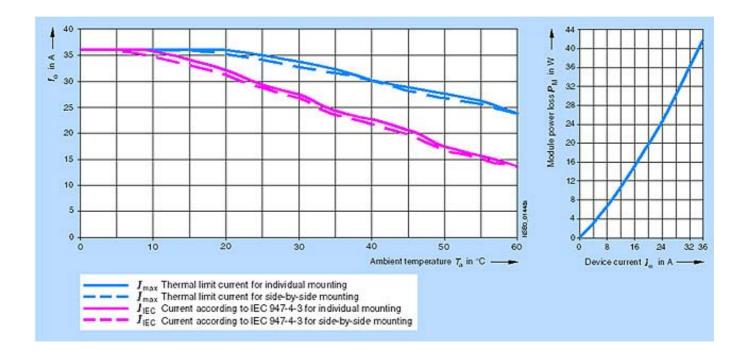
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23301BA44

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF23301BA44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23301BA44&lang=en





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