SIEMENS

Data sheet 3RF23 30-3AA02

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 30 A 40 DEGREES C 24-230 V / 24 V DC RING TERMINAL



Figure similar

General technical data:				
product brand name		SIRIUS		
Product designation		solid-state contactor		
Product function		zero-point switching		
Number of poles for main current circuit	1			
Protection class IP		IP00		
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 _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		
Manufacturer article number _4 of the accessories that can be ordered		3RF2950-0GA13		
Ambient temperature				
 during operation 	°C	-25 +60		

during storage	°C	-55 + 80	
Installation altitude at height above sea level	m	1 000	
maximum		0	
Vibration resistance acc. to IEC 60068-2-6		2g	
Shock resistance acc. to IEC 60068-2-27		15g / 11 ms	
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		К	
Equipment marking acc. to DIN EN 61346-2		Q	
Number of NC contacts for auxiliary contacts		0	
Number of NO contacts for auxiliary contacts		0	
Number of CO contacts for auxiliary contacts		0	
Main circuit:			
Number of NO contacts for main contacts		1	
Number of NC contacts for main contacts		0	
Operating current			
• at AC-51 Rated value	Α	30	
Operating current minimum	mA	500	
Operating voltage at AC			
at 50 Hz Rated value	V	24 230	
• at 60 Hz Rated value	V	24 230	
Operating range relative to the operating voltage at AC			
● at 50 Hz	V	20 253	
● at 60 Hz	V	20 253	
Operating frequency Rated value	Hz	50 60	
Insulation voltage Rated value	V	600	
Rate of voltage rise at the thyristor for main contacts	V/µs	1 000	
maximum permissible			
Blocking voltage at the thyristor for main contacts maximum permissible	V	800	
Reverse current of the thyristor	mA	10	
Derating temperature	°C	40	
Active power loss total typical	W	33	
Surge current resistance Rated value	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	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

Installation/ 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 equipment		M4	
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		ring cable connection		
Design of the thread of the connection screw for main contacts		M5		
Tightening torque for main contacts with screw-type terminals	N·m	2 2.5		
Type of connectable conductor cross-section for main contacts				
• for JIS cable lug		JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5		
Type of connectable conductor cross-section				
 for DIN cable lug for main contacts 		DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25		
 for AWG conductors 				
 for auxiliary and control contacts 		1x (AWG 20 12)		
Type of connectable conductor cross-section 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)		
 — without core end processing 		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)		
Connectable conductor cross-section				
 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 auxiliary and control contacts 		20 12		

Type of electrical connection for auxiliary and control current circuit		ring cable connection
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	10
 for auxiliary and control contacts 	mm	10
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 Prod	luct Approval		EMC	Declaration of	Test
				Conformity	Certificates
S	(UL	EHC	C-TICK	EG-Konf.	Typprüfbescheinigu ng/Werkszeugnis

other

Umweltbestätigung

Further information

Short-circuit protection, design of the fuse link

 $\underline{\text{https://www.automation.siemens.com/cd-static/material/info/3RF23_eng.pdf}}$

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

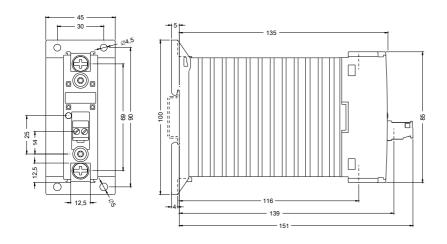
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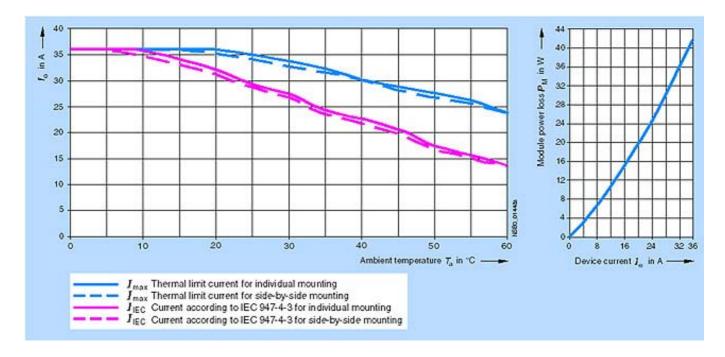
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF23303AA02}}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF23303AA02

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23303AA02&lang=en





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