SIEMENS

Data sheet 3RF23 40-3AA04

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 40 A 40 DEGREES C 48-460 V / 24 V DC RING TERMINAL



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		3RF2950-0GA16	
Ambient temperature			
during operation	°C	-25 +60	

during storage	°C	-55 + 80
Installation altitude at height above sea level maximum	m	1 000
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-1 at 400 V Rated value	Α	40
• at AC-51 Rated value	Α	40
Operating current minimum	mA	500
Operating voltage at AC		
• at 50 Hz Rated value	V	48 460
• at 60 Hz Rated value	V	48 460
Operating range relative to the operating voltage at AC		
● at 50 Hz	V	40 506
● at 60 Hz	V	40 506
Operating frequency Rated value	Hz	50 60
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/µs	1 000
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 200
Reverse current of the thyristor	mA	10
Derating temperature	°C	40
Active power loss total typical	W	44
Surge current resistance Rated value	Α	1 200
I2t value maximum	A²-s	7 200
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		
- "FFV		

• 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	67.5	
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 Product Approval	EMC	Declaration of	Test
		Conformity	Certificates











Typprüfbescheinigu ng/Werkszeugnis

other

Umweltbestätigung

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

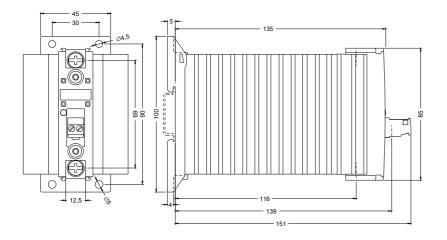
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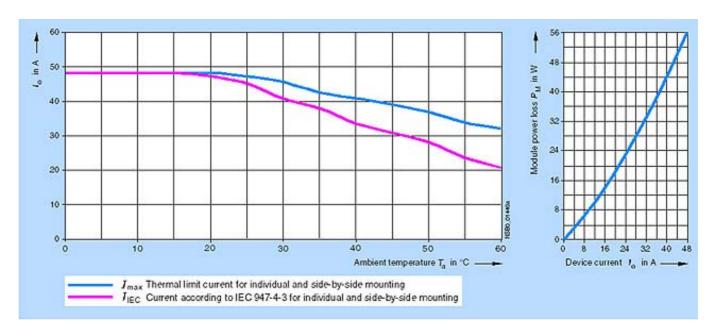
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23403AA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF23403AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23403AA04&lang=en





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