SIEMENS

Data sheet 3RF23 40-1BA04



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 40A / AC15 20A 40 DEG. C 48-460 V / 24 V DC INSTANTANEOUS SWITCHING

General technical data:		
	CIDILIC	
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's 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's article number _2 of the accessories that can be ordered	3RF2950-0HA16	
Product designation _3 of the accessories that can be ordered	converter	
Manufacturer's 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's article number _4 of the accessories		3RF2950-0GA16
that can be ordered		
Ambient temperature		
 during operation 	°C	-25 +60
during storage	°C	-55 + 80
Installation altitude at height above sea level	m	1 000
maximum		
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
	- IIIA	500
Operating voltage at AC	V	48 460
• at 50 Hz rated value		
at 60 Hz rated value	V	48 460
Operating range relative to the operating voltage at AC		
• at 50 Hz	V	40 506
	V	40 506
• at 60 Hz		
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
Power loss [W] 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		
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	67.5
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		M4
contacts		
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-sections 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-sections		
 at AWG conductors 		
— for main contacts		2x (14 10)
— for auxiliary and control contacts		1x (AWG 20 12)
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)
 — 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		screw-type terminals
current circuit		
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	Test
		Conformity	Certificates











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Schwingen/Schocke Umweltbestätigung Bestätigungen

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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

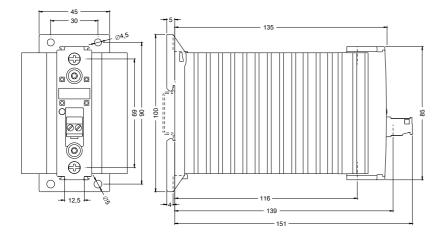
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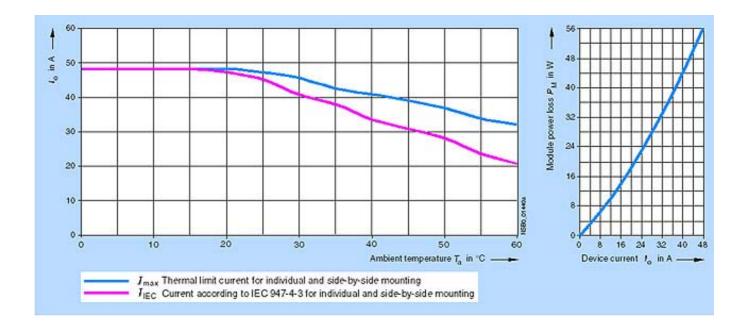
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2340-1BA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF2340-1BA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2340-1BA04&lang=en





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