SIEMENS

Data sheet

3RF23 40-1AA06



Solid-state contactor 1-phase 3RF2 AC 51 / 40 A / 40 °C 48-600 V / 24 V DC screw 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		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		<u>3RF2900-3PA88</u>
Product designation _3 of the accessories that can be ordered		converter
Manufacturer's article number _3 of the accessories that can be ordered		<u>3RF2900-0EA18</u>
Product designation _4 of the accessories that can be ordered		load monitoring
Manufacturer's article number _4 of the accessories that can be ordered		<u>3RF2950-0GA16</u>
Ambient temperature		
 during operation 	°C	-25 +60

• dente en etcare en	°C	-55 +80
• during storage	-	
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		29 15g / 11 ms
Reference indentifier acc. to DIN 40719 extended		K
according to IEC 204-2 acc. to IEC 750		ĸ
Reference identifier 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		
• minimum	mA	500
• at AC-51 rated value	А	40
• at AC-51 acc. to IEC 60947-4-3	А	33
Derating temperature	°C	40
Power loss [W] total typical	W	44
Reverse current of the thyristor	mA	10
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 600
Rate of voltage rise at the thyristor for main contacts	V/µs	1 000
maximum permissible		
Surge current resistance rated value	А	1 150
l2t value maximum	A²·s	6 600
Operating voltage at AC		
• at 60 Hz rated value	V	48 600
• at 50 Hz rated value	V	48 600
Operating range relative to the operating voltage at AC		
● at 50 Hz	V	40 660
• at 60 Hz	V	40 660
Operating frequency rated value	Hz	50 60
Insulation voltage rated value	V	600
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
— rated value maximum permissible	V	30

Control supply voltage		
 at DC initial value for signal <1> detection 	V	15
 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

		dimensions
		aimensions
moundion	mounting	

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	142; 156.0 mm up to product revision E06

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-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 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 Prod	uct Approval		EMC	Declaration of Conformity	Test Certificates
CSA		EHC	C-Tick	EG-Konf.	Type Test Certificates/Test Report

Test Certificates	other	Railway
Special Test Certificate	Confirmation	Vibration and Shock

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)

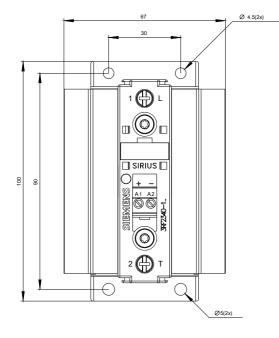
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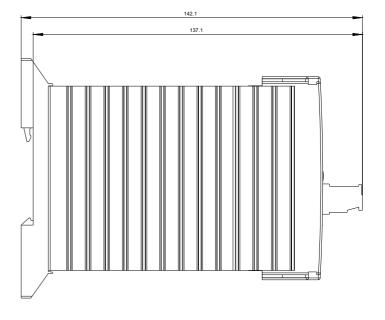
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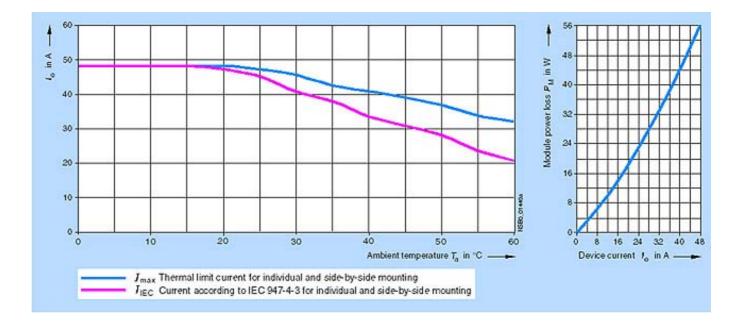
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2340-1AA06

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2340-1AA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2340-1AA06&lang=en







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