SIEMENS

Data sheet 3RF23 40-3AA26

Solid-state contactor 1-phase 3RF2 AC 51 / 40 A / 40 °C 48-600 V / 110-230 V AC Ring cable connection



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's article number _1 of the accessories that can be ordered		3RF2900-3PA88
Product designation _4 of the accessories that can be ordered		load monitoring
Manufacturer's article number _4 of the accessories that can be ordered		3RF2950-0GA36
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
Reference indentifier acc. to DIN 40719 extended		К
according to IEC 204-2 acc. to IEC 750		
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	Α	40
• at AC-51 acc. to IEC 60947-4-3	Α	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 maximum permissible	V/µs	1 000
Surge current resistance rated value	Α	1 150
I2t value maximum	A ² ·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		
Control supply voltage frequency		
• 1 rated value	Hz	50
• 2 rated value	Hz	60
Type of voltage of the control supply voltage		AC
Control supply voltage 1		
• at AC		
— at 50 Hz Initial rated value	V	110
— at 50 Hz Final rated value	V	230
— at 60 Hz Initial rated value	V	110

— at 60 Hz Final rated value	V	230
Control supply voltage	_	
• at AC		
— initial value for signal <1> detection	V	90
— at 50 Hz Full-scale value for signal<0> recognition	V	40
— at 60 Hz Full-scale value for signal<0> recognition	V	40
Symmetrical line frequency tolerance	Hz	5
Control current		
 at minimum control supply voltage 		
— at AC	mA	2
• at AC 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	142; 156.0 mm up to product revision E06

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-sections 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-sections		
 for DIN cable lug for main contacts 		DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
 at AWG conductors 		
— 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 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		МЗ
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 Conformity Certificates











Type Test
Certificates/Test
Report

other

Confirmation

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)

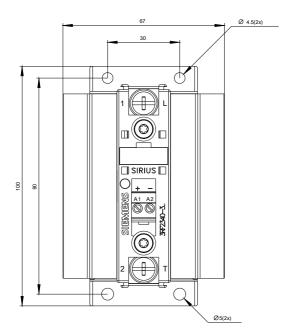
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2340-3AA26

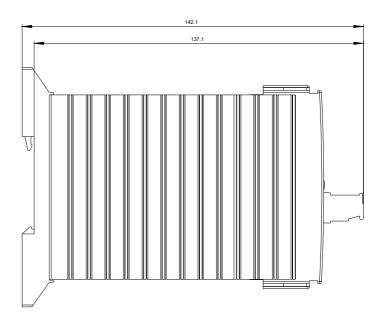
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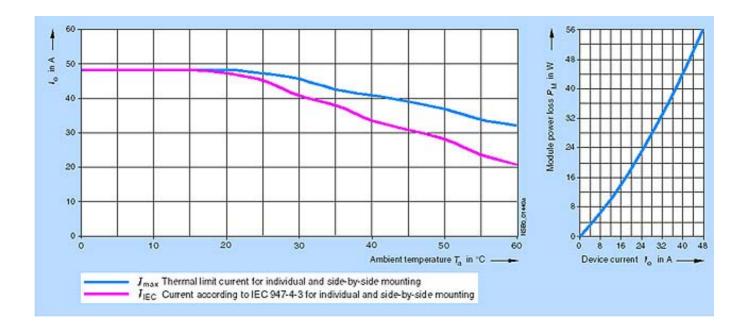
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2340-3AA26

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF2340-3AA26







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