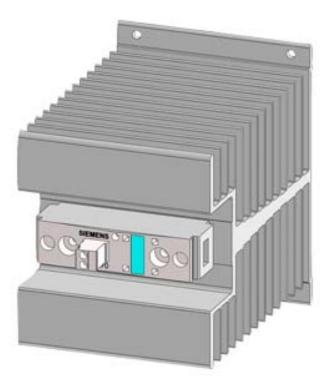
SIEMENS

Data sheet 3RF23 70-1BA06



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70A/AC15 27.5A 40 DEG. C 48-600 V / 24 V DC INSTANTANEOUS SWITCHING

General technical data:	
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 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 article number _2 of the accessories that can be ordered	3RF2950-0HA16
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		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	70
• at AC-51 Rated value	Α	50
Operating current minimum	mA	500
Operating voltage at AC	_	
at 50 Hz Rated value	V	48 600
at 60 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
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/µs	1 000
Blocking voltage at the thyristor for main contacts	V	1 600
maximum permissible		
Reverse current of the thyristor	mA	10
Derating temperature	°C	40
Active power loss total typical	W	83
Surge current resistance Rated value	Α	1 150
I2t value maximum	A²·s	6 600
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
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 fixing	
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	135	
Height	mm	100	
Depth	mm	157.5	

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-section 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-section			
 for AWG conductors 			
— for main contacts		2x (14 10)	
 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			

mm²	1.5 6
mm²	1 10
mm²	0.5 2.5
mm²	0.5 2.5
mm²	0.5 2.5
	10 14
	20 12
	screw-type terminals
	M3
mm	7
mm	7
N·m	0.5 0.6
lbf∙in	4.5 5.3
	mm² mm² mm² mm² mm nmm

Certificates/ approvals:

General Product Approval		EMC	Declaration of Conformity	Test Certificates	
				4	Typprüfbescheinigu











ng/Werkszeugnis

other

Umweltbestätigung

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

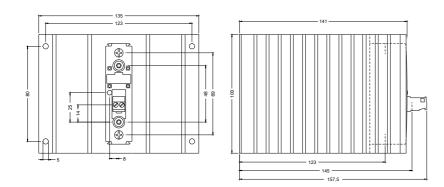
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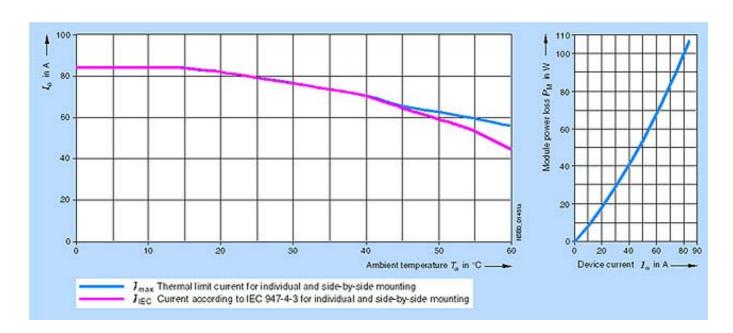
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23701BA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF23701BA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23701BA06&lang=en





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