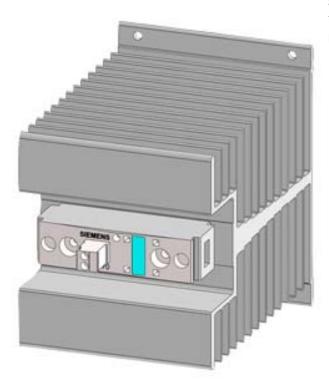
SIEMENS

Data sheet 3RF23 70-1BA26



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70A/AC15 27.5A 40 DEG. C 48-600 V / 110-230 V AC 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		3RF2950-0HA36
Product designation _4 of the accessories that can be ordered		load monitoring
Manufacturer article number _4 of the accessories that can be ordered		3RF2950-0GA36
Ambient temperature		
during operation	°C	-25 +60

Installation altitude at height above sea level maximum Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-27 Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Number of NC contacts for main contacts Number of NC contacts for main contacts Operating current at AC-1 at 400 V Rated value at AC-51 Rated value Operating current minimum Operating voltage at AC	°C m	-55 +80 1 000 2g 15g / 11 ms K Q 0 0 0 0 70
Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Number of NC contacts for main contacts Number of NC contacts for auxiliary contacts Operating current • at AC-1 at 400 V Rated value Operating current minimum	A A	2g 15g / 11 ms K Q 0 0 0
Shock resistance acc. to IEC 60068-2-27 Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Vain circuit: Number of NC contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	15g / 11 ms K Q 0 0 0 1 1
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Main circuit: Number of NC contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	K Q 0 0 0 1 0
according to IEC 204-2 acc. to IEC 750 Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Wain circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	Q 0 0 0
Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	0 0 0
Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Vain circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	0 0 0
Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	1 0
Number of CO contacts for auxiliary contacts Vain circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	1 0
Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	1 0
Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	0
Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	0
Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating current minimum	Α	
at AC-1 at 400 V Rated value at AC-51 Rated value Operating current minimum	Α	70
at AC-51 Rated value Operating current minimum	Α	70
Operating current minimum		
	mΛ	50
Operating voltage at AC	шА	500
at 50 Hz Rated value	V	48 600
• at 60 Hz Rated value	٧	48 600
Operating range relative to the operating voltage at AC		
● at 50 Hz	V	40 660
● at 60 Hz	٧	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 maximum permissible	V	1 600
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:		
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		
— 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 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		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-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		
• 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 Product Approval EMC Declaration of 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

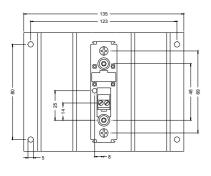
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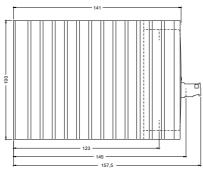
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23701BA26

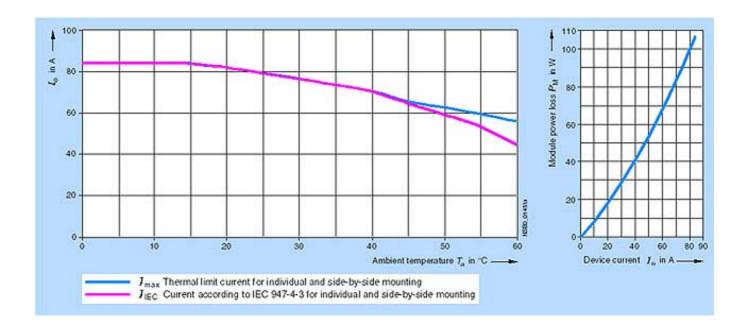
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF23701BA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23701BA26&lang=en







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