SIEMENS

Data sheet 3RF24 30-1AB45



SEMI-CONDUCTOR CONTAC.3-PH.3RF2 AC51 30A 40 DEG. C 48-600V / 4-30V DC 2-PHASE CONTROLLED SCREW TERMINAL BLOCKING VOLTAGE 1200V

General technical data:		
product brand name		SIRIUS
Product designation		solid-state contactor
Product function		zero-point switching
Number of poles for main current circuit		3
Protection class IP		IP20
Product designation _2 of the accessories that can be ordered		converter
Manufacturer article number _2 of the accessories that can be ordered		3RF2900-0EA18
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
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		2
Number of NC contacts for main contacts		0

Operating current			
at AC-1 at 400 V Rated value	Α	30	
• at AC-51 Rated value	Α	30	
Reverse current of the thyristor	mA	10	
Derating temperature	°C	40	
Operating current minimum	mA	500	
Surge current resistance Rated value	Α	1 200	
I2t value maximum	A ² ·s	7 200	
Operating voltage with AC			
● at 50 Hz Rated value	V	48 600	
at 60 Hz Rated value	V	48 600	
Operating range relative to the operating voltage with AC			
● at 50 Hz	V	40 660	
• at 60 Hz	V	40 660	
Operating frequency Rated value	Hz	50 60	
Relative symmetrical tolerance of the operating frequency	%	10	
Insulation voltage Rated value	V	600	
Rate of voltage rise at the thyristor for main contacts	V/µs	1 000	
maximum permissible	ν/μ3	1 000	
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 200	
Short-circuit protection, design of the fuse link			
Control circuit/ Control:			
Type of voltage of the control supply voltage		DC	
Control supply voltage 1			
• for DC	V	4 30	
Control supply voltage			
 for DC Full-scale value for signal<0> recognition 	V	1	
Symmetrical line frequency tolerance	Hz	5	
Control current			
at minimum control supply voltage			
— for DC	mA	2	
— IOI DC	IIIA	2	

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		

mΑ

• for DC Rated value

30

Tightening torque of the screw for securing the equipment	N·m	1.5
Width	mm	90
Height	mm	100
Depth	mm	112.5

_		
	screw-type terminals	
	M4	
N·m	2 2.5	
lbf∙in	18 22	
	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)	
	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
	2x (14 10)	
	1x (AWG 20 12)	
	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	
	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	
	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	
mm²	1.5 6	
mm²	1 10	
mm²	0.5 2.5	
mm²	0.5 2.5	
mm²	0.5 2.5	
	14 10	
	screw-type terminals	
	M3	
	mm² mm² mm² mm²	

AWG number as coded connectable conductor cross section for auxiliary and control contacts		20 12
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	7.5 5.3

Certificates/ approvals:

General Prod	luct Approval		EMC	Declaration of Conformity	Test Certificates
		EHC	C-TICK	EG-Konf.	Type Test Certificates/Test Report

other

Environmental Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

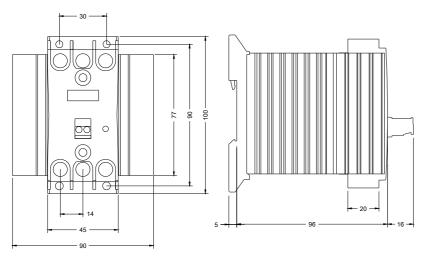
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF24301AB45

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

http://support.automation.siemens.com/WW/view/en/3RF24301AB45/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RF24301AB45&lang=en



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