SIEMENS

Data sheet

3RF22 30-3AB45



SOLID STATE RELAY 3-PHASE 3RF2 30 A 40 DEG. C 48-600 V / 4-30 V DC 2PH.-CONTROLLED RING TERMINAL LUG BLOCKING VOLTAGE 1200 V

General technical data:		
product brand name		SIRIUS
Product designation		solid-state relay
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		3RF2900-0EA18
that can be ordered		
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	-	
 Rated value maximum 	А	30
• at AC-51 Rated value	А	30
• minimum	mA	500
Derating temperature	°C	40
Surge current resistance Rated value	А	300
I2t value maximum	A²·s	450
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 maximum permissible	V/µs	500
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 200
Reverse current of the thyristor	mA	10
Control current at minimum control supply voltage		
• for DC	mA	2
Short-circuit protection, design of the fuse link		
Control circuit/ Control:	_	
Type of voltage of the control supply voltage		DC
Control ourphy voltage 1		

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
Control current		
 for 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	45	

Height	mm	95	
Depth	mm	47	
Connections/ Terminals:			
Type of electrical connection for main current circuit		ring cable connection	
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	7 10.3	
Type of connectable conductor cross-section			
 for AWG conductors 			
— for auxiliary and control contacts		1x (AWG 20 12)	
 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		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/ annrovals:			

Certificates/ approvals:

General Produ	ct Approval		EMC	Declaration of Conformity	Test Certificates
CSA CSA	UR	EHC	Стіск	EG-Konf.	Type Test Certificates/Test <u>Report</u>
other					
Environmental Confirmations					

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

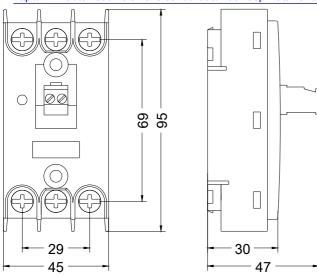
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22303AB45

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF22303AB45/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF22303AB45&lang=en







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