SIEMENS

Data sheet 3RF22 30-1AB45



SOLID STATE RELAY 3-PHASE 3RF2 30 A 40 DEG. C 48-600 V / 4-30 V DC 2PH.-CONTROLLED SCREW TERMINAL 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 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		
Operating current	٨	20
Rated value maximum	A	30
● at AC-51 Rated value	Α	30
• minimum	mA 	500
Derating temperature	°C	40
Surge current resistance Rated value	Α	300
I2t value maximum	A ² ·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 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
nstallation/ 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	N·m	1.5

equipment Width

45

mm

Height	mm	95
Depth	mm	47

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	NI	0.05
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 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
• for AWG conductors		
— for main contacts		2x (14 10)
 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 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 Prod	duct Approval		EMC	Declaration of Conformity	Test Certificates
(SA)	SU ®	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

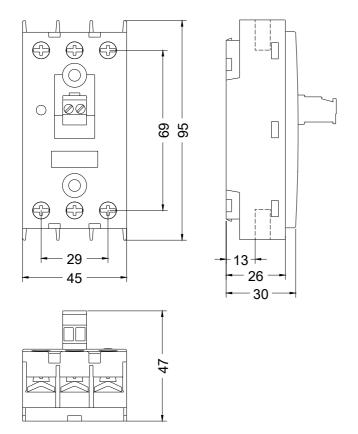
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22301AB45

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

http://support.automation.siemens.com/WW/view/en/3RF22301AB45/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RF22301AB45&lang=en



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