SIEMENS

Data sheet 3RF22 55-3AB45



SOLID STATE RELAY 3-PHASE 3RF2 55 A 40 DEG. C 48-600 V / 4-30 V DC 2PH.-CONTROLLED RING TERMINAL LUG BLOCKING VOLTAGE

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		
Rated value maximum	Α	55
• at AC-51 Rated value	Α	50
• minimum	mA	500
Derating temperature	°C	40
Surge current resistance Rated value	Α	600
I2t value maximum	A²·s	1 800
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	100
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>	V	1
recognition		
Control current	4	45
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

equipment Width

Tightening torque of the screw for securing the

1.5

45

 $N \cdot m$

mm

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/ approvals:

General Product Approval EMC Declaration of Conformity Certificates











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

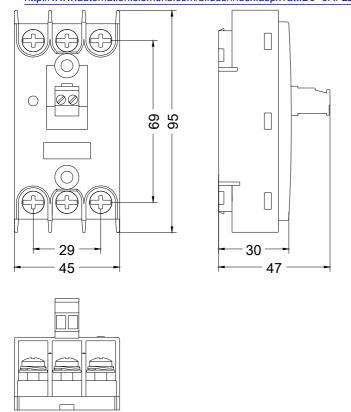
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22553AB45

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

http://support.automation.siemens.com/WW/view/en/3RF22553AB45/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RF22553AB45&lang=en



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