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		IP00		
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 at AC		
• at 50 Hz Rated value	V	48 600
● at 60 Hz Rated value	V	48 600
Operating range relative to the operating voltage at 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	100
maximum permissible	·	
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		
• at 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		
• at DC	V	4 30
Control supply voltage		
• at DC Full-scale value for signal<0> recognition	V	1
Control current		
• at 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/ approvals:

General Product Approval EMC Declaration of Test

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/3RF22_eng.pdf

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

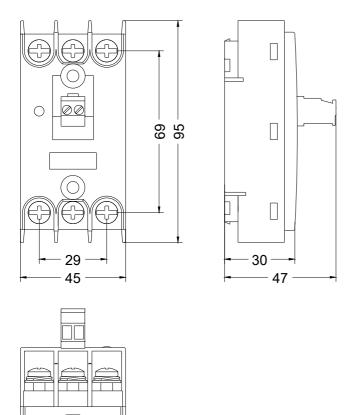
Cax online generator

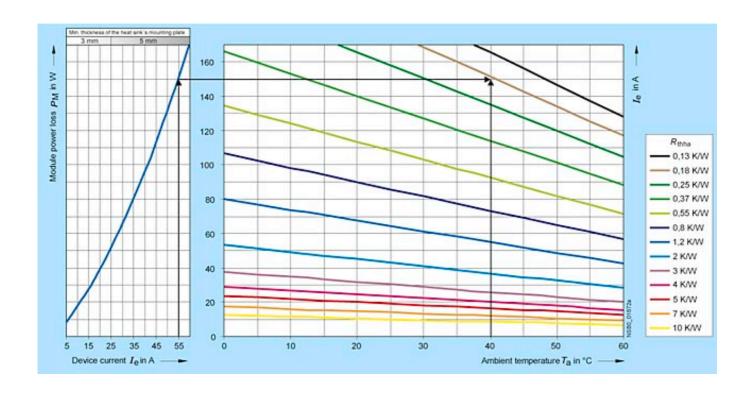
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22553AB45

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF22553AB45

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





last modified: 17.07.2015