## SIEMENS

## Data sheet

## 3RF22 55-3AC45



SOLID STATE RELAY 3-PHASE 3RF2 55 A 40 DEG. C 48-600 V / 4-30 V DC 3PH.-CONTROLLED RING TERMINAL LUG BLOCKING VOLTAGE 1200 V

Figure similar

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		converter
be ordered		
Manufacturer article number _2 of the accessories		3RF2900-0EA18
that can be ordered		
Ambient temperature		
<ul> <li>during operation</li> </ul>	°C	-25 +60
• during storage	°C	-55 +80
Installation altitude at height above sea level	m	1 000
maximum		
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		К
according to IEC 204-2 acc. to IEC 750		
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		3
Number of NC contacts for main contacts		0
Operating current		
<ul> <li>Rated value maximum</li> </ul>	A	55
<ul> <li>at AC-51 Rated value</li> </ul>	A	50
• minimum	mA	500
Derating temperature	°C	40
Surge current resistance Rated value	А	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	%	10
frequency		
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	V	1 200
maximum permissible		40
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		
<ul> <li>at DC Rated value</li> </ul>	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					
<ul> <li>for AWG conductors</li> </ul>					
- for auxiliary and control contacts		1x (AWG 20 12)			
<ul> <li>for auxiliary and control contacts</li> </ul>					
— 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					
<ul> <li>for auxiliary and control contacts</li> </ul>					
— 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					
<ul> <li>for auxiliary and control contacts</li> </ul>		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					
<ul> <li>for main contacts</li> </ul>	mm	7			
<ul> <li>for auxiliary and control contacts</li> </ul>	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 Proc	duct Approval		EMC	Declaration of	Test		
				Conformity	Certificates		
(SA)	<b>SAU</b> ®	EHC	С-тіск	EG-Konf.	Typprüfbescheinigu ng/Werkszeugnis		

other

Umweltbestätigung

## urther 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

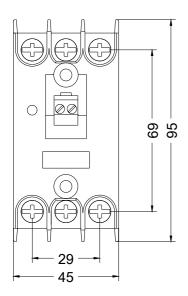
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

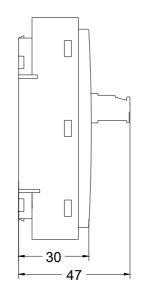
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22553AC45

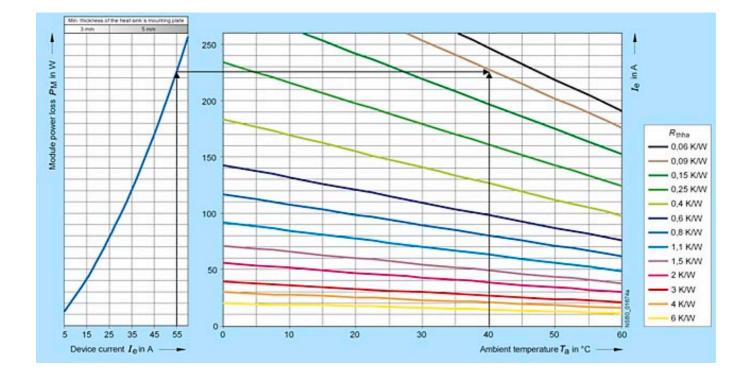
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF22553AC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF22553AC45&lang=en









last modified:

17.07.2015