SIEMENS

Data sheet 3RF22 30-2AB45



SOLID STATE RELAY 3-PHASE 3RF2 30 A 40 DEG. C 48-600 V / 4-30 V DC 2PH.-CONTROLLED SPRING-TYPE TERMINALS 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		
 Rated value maximum 	Α	30
• at AC-51 Rated value	Α	20
• minimum	mA	500
Derating temperature	°C	40
Surge current resistance Rated value	Α	300
I2t value maximum	A²-s	450
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	V	600
Insulation voltage Rated value Rate of voltage rise at the thyristor for main contacts	V V/µs	500
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		
• 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		spring-loaded terminals	
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	
Type of connectable conductor cross-section			
• for main contacts			
— solid		2x (0.5 2.5 mm²)	
— finely stranded			
 — with core end processing 		2x (0.5 1.5 mm²)	
 — without core end processing 		2x (0.5 2.5 mm²)	
for AWG conductors			
— for main contacts		2x (18 14)	
 for auxiliary and control contacts 		1x (AWG 20 12)	
 for auxiliary and control contacts 			
— solid		0.5 1.5 mm²	
— finely stranded			
 — with core end processing 		0.5 2.5 mm ²	
 — without core end processing 		0.5 2.5 mm ²	
Connectable conductor cross-section			
• for main contacts			
single or multi-stranded	mm²	0.5 2.5	
— finely stranded			
 — with core end processing 	mm²	0.5 1.5	
 — without core end processing 	mm²	0.5 2.5	
 for auxiliary and control contacts 			
— solid	mm²	0.5 1.5	
— 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		spring-loaded terminals
Wire stripping length of the cable		
• for main contacts	mm	10
 for auxiliary and control contacts 	mm	10

Certificates/ approvals:

General Prod	duct Approval		EMC	Declaration of	Test
				Conformity	Certificates
	91 0°	EAC	Calick	C E	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

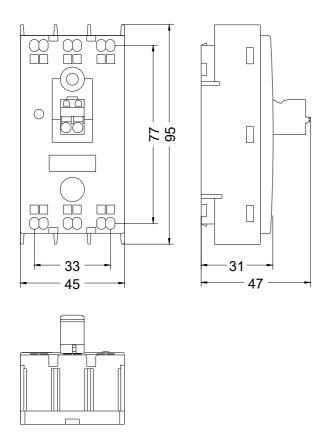
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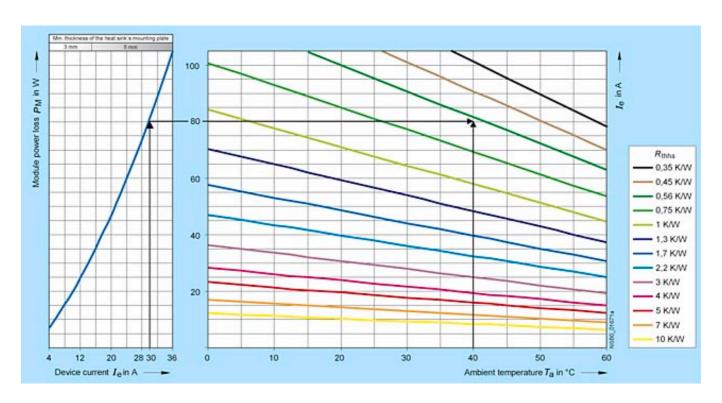
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF22302AB45}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF22302AB45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF22302AB45&lang=en





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