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 brandname		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's article number _2 of the accessories		3RF2900-0EA18
that can be ordered		
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 	A	30
• at AC-51 rated value	A	20
● minimum	mA	500
Derating temperature	°C	40
Surge current resistance rated value	А	300
l2t 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		
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		
• at DC	mA	22
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 initial value for signal <1> detection	V	4
 at DC Full-scale value for signal<0> recognition 	V	1
Control current		
• at DC rated value	mA	30
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

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-sections		
• 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)
• at 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 mm²
- without core end processing		0.5 2.5 mm²
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		

 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 Proc	luct Approval		EMC	Declaration of Conformity	Test Certificates
CSA	GAN ® UR	EHC	C-Tick	EG-Konf.	Type Test Certificates/Test Report

Environmental

Confirmations

other

Short-circuit protection, design of the fuse link https://www.automation.siemens.com/cd-static/material/info/3RF22_eng.pdf

Confirmation

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

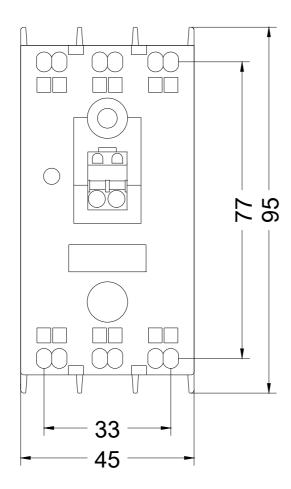
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2230-2AB45

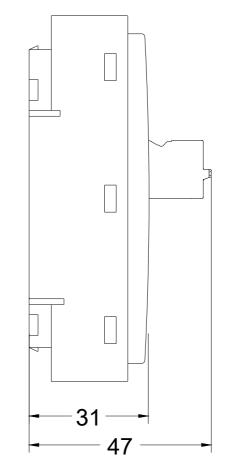
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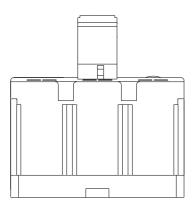
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2230-2AB45

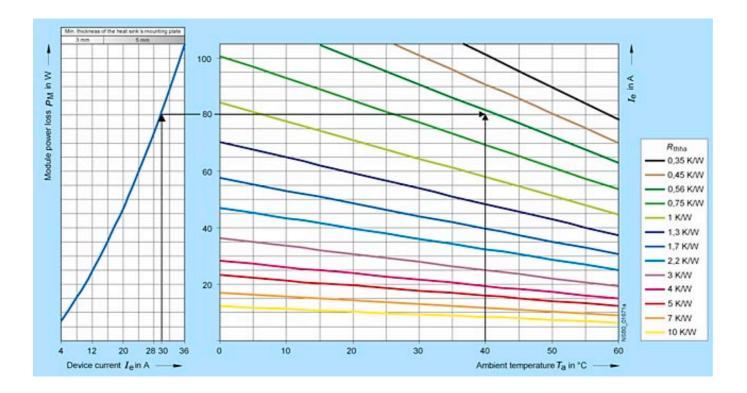
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2230-2AB45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2230-2AB45&lang=en









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