SIEMENS

Data sheet 3RF22 30-3AC45



Semiconductor relay, 3-phase 3RF2 30 A / 40 $^{\circ}$ C 48-600 V / 4-30 V DC 3-phase controlled Ring cable connection 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'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	m	1 000
maximum		
Vibration resistance acc. to IEC 60068-2-6		2g
Shock resistance acc. to IEC 60068-2-27		15g / 11 ms

Reference indentifier acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750	
Reference identifier 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

Number of NO contacts for main contacts		
Number of NO contacts for main contacts		3
Number of NC contacts for main contacts		0
Operating current		
• rated value maximum	Α	30
● at AC-51 rated value	Α	30
• 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		
Insulation voltage rated value	V	600
Rate of voltage rise at the thyristor for main contacts	V/µs	500
maximum permissible Blocking voltage at the thyristor for main contacts	V	1 200
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		

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

30

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-sections		
 at 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		МЗ
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 ates











Type Test Certificates/Test Report

other	Railway
Confirmation	Confirmation

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2230-3AC45

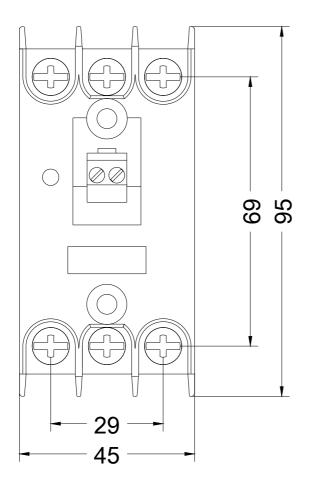
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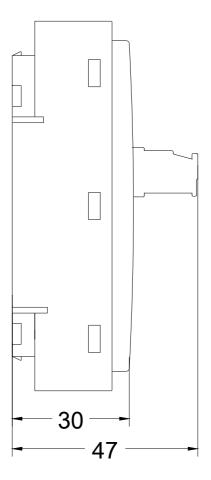
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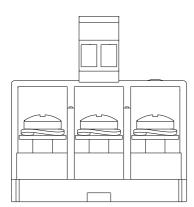
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

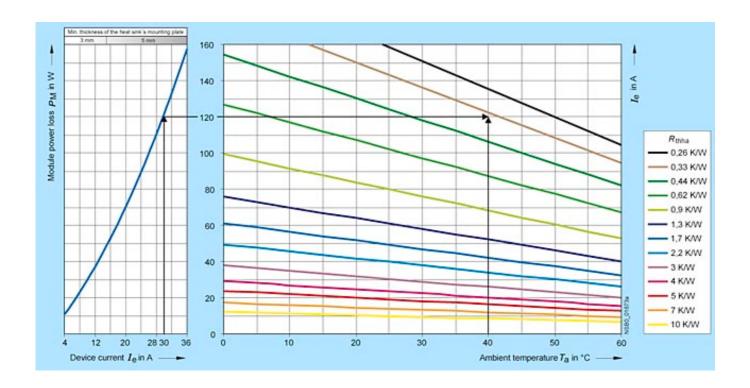
https://support.industry.siemens.com/cs/ww/en/ps/3RF2230-3AC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2230-3AC45&lang=en









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