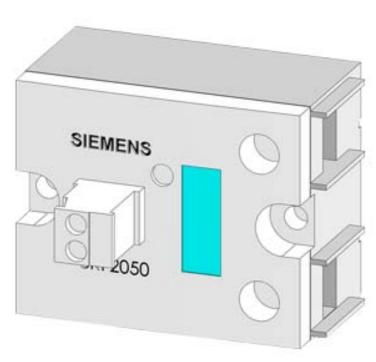
SIEMENS

Data sheet 3RF20 30-1AA42

SEMICONDUCTOR RELAY 3RF2, 1-PH. CONSTRUCTION WIDTH 45 MM, 30 A 24-230 V / 4-30 V DC SCREW TERMINAL



General technical data:		
product brand name		SIRIUS
Product designation		solid-state relay
Product function		zero-point switching
Number of poles for main current circuit		1
Protection class IP		IP20
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
Equipment marking acc. to DIN 40719 extended		Κ
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:			
	1		
	0		
Α	30		
Α	30		
mA	500		
V	24 230		
V	24 230		
V	20 253		
V	20 253		
Hz	50 60		
%	10		
V	600		
V/µs	500		
V	800		
mA	10		
°C	40		
W	44.2		
Α	300		
A²-s	450		
	DC		
V	4		
V	30		
V	1		
%	10		
mA	3		
	A mA V V V V Hz % V V/µs V W A A²-s		

• at DC Rated value

15

mΑ

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	58
Depth	mm	48

Connections/ Terminals:				
Type of electrical connection for main current circuit		screw-type terminals		
Design of the thread of the connection screw for main contacts		M4		
Tightening torque for main contacts with screw-type terminals				
• minimum	N·m	2		
• maximum	N·m	2.5		
Tightening torque [lbf·in] for main contacts with screw-type terminals				
• minimum	lbf∙in	7		
• maximum	lbf∙in	10.3		
Type of connectable conductor cross-section				
• for main contacts				
— solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		
— finely stranded				
 with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
• for AWG conductors				
— for main contacts		2x (14 10)		
 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 main contacts				
 single or multi-stranded 	mm²	1.5 6		
— finely stranded				
 with core end processing 	mm²	1 10		
 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 main contacts		14 10
 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	10
 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 Pro	duct Approval		EMC	Declaration of Conformity	Test Certificates
(SA)	SU °	EHC	C-TICK	EG-Konf.	Typprüfbescheinigu ng/Werkszeugnis

other

Umweltbestätigung

Further information

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cd-static/material/info/3RF20_eng.pdf

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymal

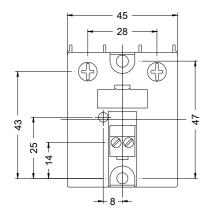
Cax online generator

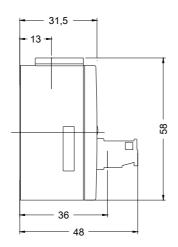
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF20301AA42

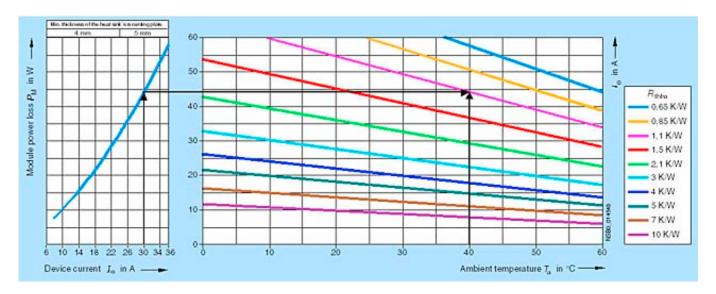
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF20301AA42

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF20301AA42&lang=en







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