SIEMENS

Data sheet 3RF24 50-1AC35



SOLID-STATE CONTACT.3PHASE 3RF2 AC51 50A 40 DEG. C 48-600V / 110V AC 3-PHASE CONTROLLED SCREW TERMINAL BLOCKING VOLTAGE 1200V

General technical data:			
product brand name		SIRIUS	
Product designation		solid-state contactor	
Product function		zero-point switching	
Number of poles for main current circuit		3	
Protection class IP		IP20	
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	

	3
	0
Α	50
Α	50
mA	10
°C	40
mA	500
Α	1 150
A ² ·s	6 600
V	48 600
V	48 600
V	40 660
V	40 660
Hz	50 60
%	10
V	600
V/µs	1 000
V	1 600
	AC
	70
V	90 125
V	90 125
	-
	45
Hz	66
V	90
V	90
	A mA °C mA A A A²·s V V V Hz % V V Hz Hz Hz

Relative symmetrical tolerance of the supply voltage	%	10
frequency		
Control current		
 at minimum control supply voltage 		
— at AC	mA	2
at AC 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	157.5	
Height	mm	180	
Depth	mm	121	

Connections/ Terminals:				
Type of electrical connection for main current circuit		screw-type terminals		
Design of the thread of the connection screw for main		M4		
contacts				
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	18 22		
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	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	7.5 5.3

Certificates/ approvals:

General Prod	luct Approval		EMC	Declaration of Conformity	Test Certificates
	(UL)	EHC	C	CE	Typprüfbescheinigu ng/Werkszeugnis

EG-Konf.

other

Umweltbestätigung

Further information

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cd-static/material/info/3RF24_eng.pdf

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

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

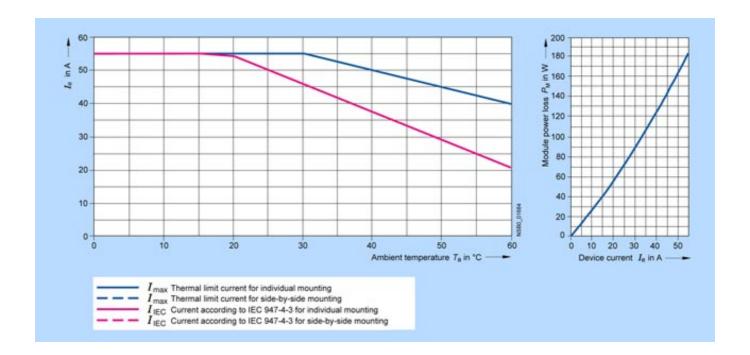
Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF24501AC35

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF24501AC35



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