SIEMENS

Product data sheet

3RF2350-3AA02



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 50 A 40 DEGREES C 24-230 V / 24 V DC RING TERMINAL

General technical data:		
Product brand name		SIRIUS
product designation		solid-state contactor
Product function	_	zero-point switching
Number of poles / for main current circuit		1
Protection class IP		IP20
Product designation / _1 / of the accessories that can be ordered		terminal cover
Manufacturer article number / _1 / of the accessories that can be ordered		<u>3RF2900-3PA88</u>
Product designation / $_3$ / of the accessories that can be ordered		converter
Manufacturer article number / $_3$ / of the accessories that can be ordered		<u>3RF2900-0EA18</u>
Product designation / _4 / of the accessories that can be ordered		load monitoring
Manufacturer article number / _4 / of the accessories that can be ordered		<u>3RF2950-0GA13</u>
Ambient temperature		
during operating	°C	-25 60
during storage	°C	-55 80
Installation altitude / at a height over sea level / maximum	m	1,000

Resistance against vibration / according to IEC 60068-2-6		2g
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation	-	
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		к
according to DIN EN 61346-2		Q
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0
Main circuit:		
Number of NO contacts / for main contacts		1
Number of NC contacts / for main contacts	_	0
Operating current		
• at AC-1 / at 400 V / rated value	А	50
• at AC-51 / rated value	А	50
Operating current / minimum	mA	500
Operating voltage		
• at 50 Hz / at AC / rated value	V	24 230
• at 60 Hz / at AC / rated value	V	24 230
Working area related to the operating voltage		
• at 50 Hz / for AC	V	20 253
• at 60 Hz / for AC	V	20 253
Operating frequency		
rated value	Hz	50 60
Relative symmetrical tolerance / of the operation frequency	%	10
Insulation voltage / rated value	V	600
Voltage slew rate / at the thyristor / for main contacts / maximum permissible	V/µs	1,000
Block voltage / at the thyristor / for main contacts / maximum permissible	V	800
Reverse current / of the thyristor	mA	10
Derating temperature	°C	40
Active power loss / total / typical	W	54
Resistance against the impulse current / rated value	А	1,150
l2t-level / maximum	A²·s	6,600
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
• for DC		

initial rated value	V	15
final rated value	V	24
Control supply voltage		
 for DC / final value for signal<0>-recognition 	V	5
Control current		
 at minimum control supply voltage / for DC 	mA	2
• for DC / rated value	mA	15
Fuse assignments	_	https://www.automation.siemens.com/cd- static/material/info/3RF21_eng.pdf

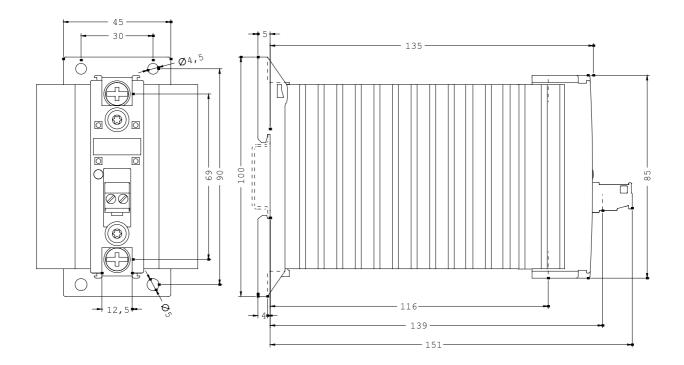
Installation/mounting/dimensions:

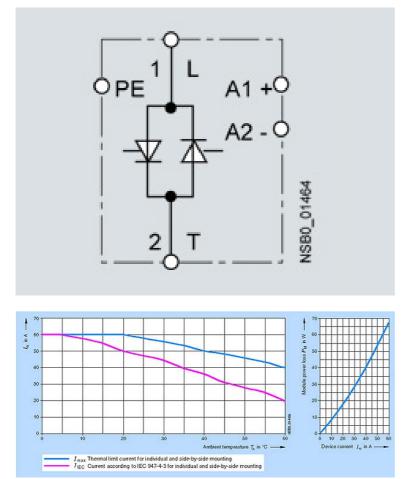
Installation/mounting/dimensions:		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Design of the thread / of the screw for fastening of the operating resource		M4
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Width	mm	67.5
Height	mm	100
Depth	mm	156

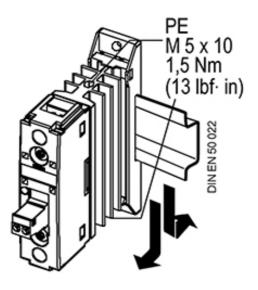
Connections:		
Design of the electrical connection / for main current circuit		ring cable connection
Design of the thread / of the connection screw / for main contacts	_	M5
Tightening torque / for main contacts		
with screw-type terminals	N∙m	2 2.5
Type of the connectable conductor cross-section		
 for main contacts / for JIS cable lug 		JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
 for DIN cable lug / for main contacts 		DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
for 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 conductor end processing 		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
 without conductor final cutting 		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
Conductor cross section that can be connected		
 for auxiliary and control contacts 		
• solid	mm²	0.5 2.5
stranded wire		

 with conductor end processing / minimum 	mm²	0.5 2	2.5
 without conductor final cutting 	mm²	0.5 2.5	
Design of the electrical connection / for auxiliary and control current circuit		ring cal	ble connection
Design of the thread / of the connection screw / of the auxiliary and control pins		M3	
AWG number / as coded connectable conductor cross-section			
for auxiliary and control contacts		20 1	2
Skinning length / of the cable / for main contacts	mm	10	
Skinning length / of the cable / for auxiliary and control contacts	mm	10	
Tightening torque / for auxiliary and control contacts			
with screw-type terminals	N∙m	0.5 (0.6
Tightening torque (Ibf-in) / for auxiliary and control contacts			
with screw-type terminals	lbf∙in	4.5 5.3	
Certificates/approvals:			
General Product Approval	Test Certificates		other
CSA ROSTEST	Manufacture	ŗ	<u>Manufacturer</u>
Further information:			
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs			
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall			
CAx-Online-Generator http://www.siemens.com/cax			

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2350-3AA02







last change:

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