SIEMENS

Product data sheet

3RF2350-1AA02



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

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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		screw-type 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
Tightening torque (Ibf·in) / for main contacts		
with screw-type terminals	lbf∙in	18 22
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (1.5 2.5 mm2), 2x (2.5 6 mm2)
finely stranded		
 with conductor 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 conductor end processi		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
ng		
 without conductor final cut ting 		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
Conductor cross section that can be connected		
for main contacts		
• solid	mm²	1.5 6
stranded wire		
 with conductor end processing 	mm²	1 10
 for auxiliary and control contacts 		
• solid	mm²	0.5 2.5
stranded wire		
 with conductor end processing / minimum 	mm²	0.5 2.5
without conductor final cutting	mm²	0.5 2.5
AWG number / as coded connectable conductor cross-section / for main contacts		10 14
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
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 12
Skinning length / of the cable / for main contacts	mm	7
Skinning length / of the cable / 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 (Ibf·in) / for auxiliary and control contacts		
• with screw-type terminals	lbf•in	4.5 5.3

Certificates/ap	provals:				
General Produc	ct Approval		Test Certificates	other	
SP	ROSTEST	(UL)	Manufacturer	Manufacturer	

UL

Further information:

CSA

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

Industry Mall (Online ordering system)

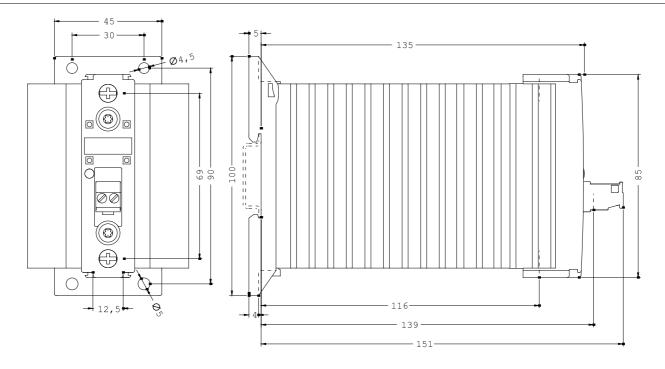
http://www.siemens.com/industrial-controls/mall

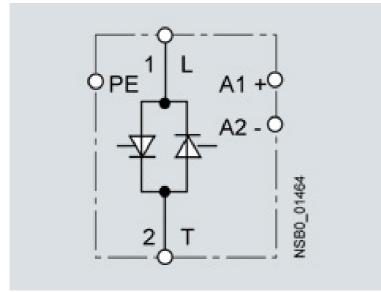
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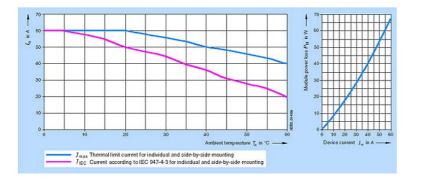
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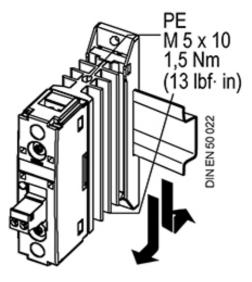
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2350-1AA02/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2350-1AA02









last change:

Aug 22, 2011