SIEMENS

Product data sheet

3RF2390-3AA02



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 90 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>3RF2990-0GA13</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	88
• at AC-51 / rated value	А	88
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
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	117
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

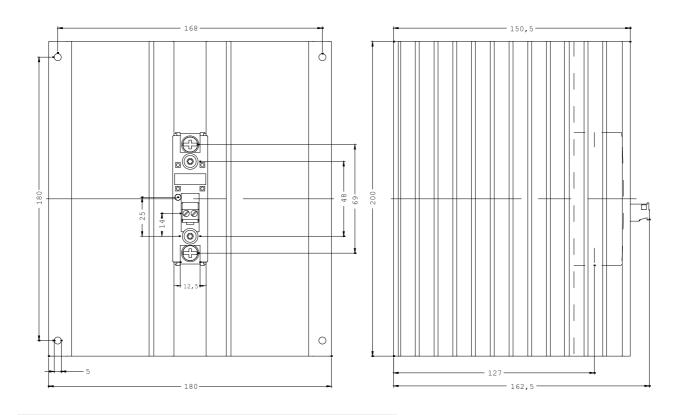
final rated value	V	24
Control supply voltage		
 for DC / final value for signal<0>-recognition 	V	5
Control current	_	
 at minimum control supply voltage / for DC 	mA	2
• for DC / rated value	mA	15
Fuse assignments	_	https://www.automation.siemens.com/cd- static/material/info/3RF21_eng.pdf

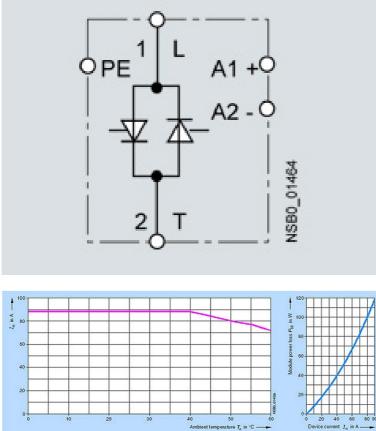
Installation/mounting/dimensions:		
Type of mounting		screw fixing
Type of fixing/fixation / series installation		Yes
Design of the thread / of the screw for fastening of the operating resource		M4
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Width	mm	180
Height	mm	100
Depth	mm	162.5

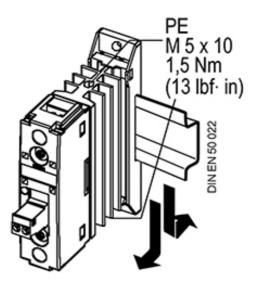
Connections:		
Design of the electrical connection / for main current circuit		ring cable connection
Design of the thread / of the connection screw / for main contacts		M5
Tightening torque / for main contacts		
with screw-type terminals	N∙m	2 2.5
Type of the connectable conductor cross-section		
 for 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 /	mm²	0.5 2.5
 without conductor final cutting 	mm²	0.5 2.5

Design of the electrical connection / for auxiliary and control current circuit		ring cable connection	
Design of the thread / of the connection screw / of the auxiliary and control pins		М3	
AWG number / as coded connectable conductor cross-section			
 for auxiliary and control contacts 		20 12	
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 (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	Test Certificates
	С-тіск	EG-Konf.	<u>Type Test</u> Certificates/Test Report
other			
Environmental Confirmations			
Further information:			
Further information: Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs			
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs Industry Mall (Online ordering system)			
Information- and Downloadcenter (Catalogs, Brochures,)			

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2390-3AA02







last change:

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