SIEMENS

Product data sheet 3RF2390-3BA26



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 90A / AC15 30A 40 DEG. C 48-600 V / 110-230 V AC INSTANTANEOUS SWITCHING

General technical data:				
product brand name		SIRIUS		
product designation		solid-state contactor		
Product function		instantaneous 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		3RF2900-3PA88		
Product designation / _2 / of the accessories that can be ordered		power regulator		
Manufacturer article number / _2 / of the accessories that can be ordered		3RF2990-0HA36		
Product designation / _4 / of the accessories that can be ordered		load monitoring		
Manufacturer article number / _4 / of the accessories that can be ordered		3RF2990-0GA36		
Ambient temperature				
during operating	°C	-25 +60		
during storage	°C	-55 +80		
Installation altitude / at a height over sea level / maximum	m	1,000		

2g
15g / 11 ms
К
Q
0
0
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	Α	88
at AC-51 / rated value	Α	88
Operating current / minimum	mA	500
Operating voltage		
• at 50 Hz / at AC / rated value	V	48 600
at 60 Hz / at AC / rated value	V	48 600
Working area related to the operating voltage		
• at 50 Hz / for AC	V	40 660
• at 60 Hz / for AC	V	40 660
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	1,600
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	Α	1,150
l2t-level / maximum	A²·s	6,600

Control circuit:			
Control supply voltage frequency			
• 1 / rated value	Hz	50	
• 2 / rated value	Hz	60	
Type of voltage / of the controlled supply voltage		AC	

Control supply voltage / 1				
• at 50 Hz / for AC				
• initial rated value	V	110		
• final rated value	V 230			
• at 60 Hz / for AC				
• initial rated value	V	110		
• final rated value	V	230		
Control supply voltage				
• at 50 Hz / for AC / final value for signal<0>-recognition	V	40		
• at 60 Hz / for AC / final value for signal<0>-recognition	V	40		
Tolerance of the line frequency	Hz	5		
Control current				
• at minimum control supply voltage / for AC	mA 2			
• for AC / 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		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	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 Ap	oproval		EMC	Declaration of Conformity	Test Certificates
S	P GOST	UL	C-TICK	EG-Konf.	Type Test Certificates/Test Report

other

Environmental Confirmations

Further information:

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

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

Industry Mall (Online ordering system)

 $\underline{\text{http://www.siemens.com/industrial-controls/mall}}$

CAx-Online-Generator

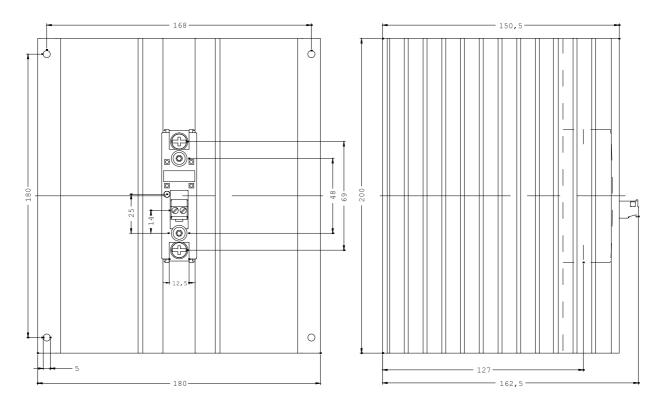
http://www.siemens.com/cax

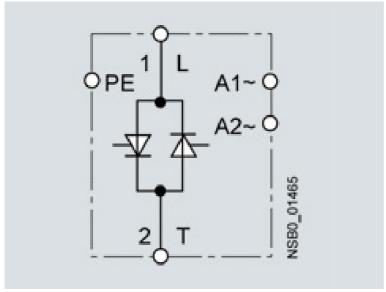
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

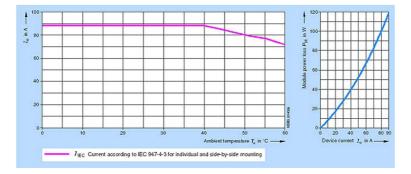
http://support.automation.siemens.com/WW/view/en/3RF2390-3BA26/all

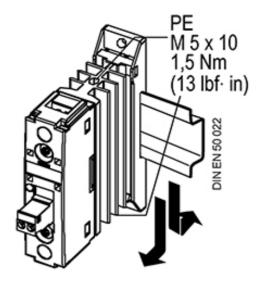
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2390-3BA26









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