SIEMENS

Product data sheet

3RF2370-3BA04



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70A/AC15 27.5A 40 DEG. C 48-460 V / 24 V DC 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	<u>3RF2900-3PA88</u>
Product designation / _2 / of the accessories that can be ordered	power regulator
Manufacturer article number / _2 / of the accessories that can be ordered	<u>3RF2990-0HA16</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>3RF2990-0GA16</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	٨	70		
at AC-1 / at 400 V / rated value	A	70		
• at AC-51 / rated value	A	70		
Operating current / minimum	mA	500		
Operating voltage				
• at 50 Hz / at AC / rated value	V	48 460		
at 60 Hz / at AC / rated value	V	48 460		
Working area related to the operating voltage				
• at 50 Hz / for AC	V	40 506		
• at 60 Hz / for AC	V	40 506		
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	1,200		
Reverse current / of the thyristor	mA	10		
Derating temperature	°C	40		
Active power loss / total / typical	W	83		
Resistance against the impulse current / rated value	А	1,150		
I2t-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

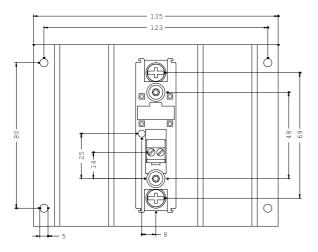
Installation/mounting/dimensions:		
Type of mounting		screw fixing
Type of fixing/fixation / series installation		Yes
Design of the thread / of the screw for fastening of the operating resource		M4
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Width	mm	135
Height	mm	100
Depth	mm	157.5

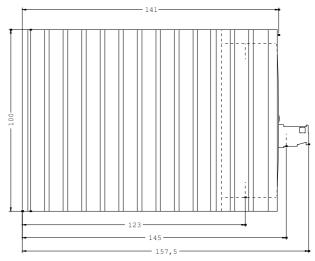
Connections:		
Design of the electrical connection / for main current circuit		ring cable connection
Design of the thread / of the connection screw / for main contacts		M5
Tightening torque / for main contacts		
with screw-type terminals	N∙m	2 2.5
Type of the connectable conductor cross-section		
for 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 processi ng 		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
 without conductor final cut ting 		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)

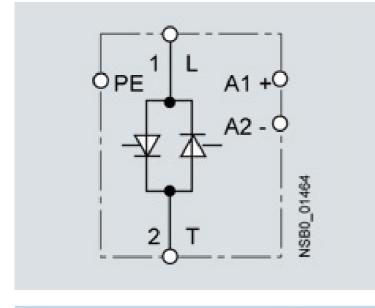
Conductor cross section that can be connected					
 for auxiliary and control contacts 					
• solid	mm²	0.5 2.5			
stranded wire					
 with conductor end processing / minimum 	mm²	0.5 2.5			
 without conductor final cutting 	mm²	0.5 2.5			
Design of the electrical connection / for auxiliary and control 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 (Ibf-in) / for auxiliary and control contacts					
with screw-type terminals	lbf∙in	4.5 5.3			
Certificates/approvals:					
General Product Approval	Test Certific	ates othe	r		
CSA ROSTEST	Manufacture	<u>Man</u>	<u>ufacturer</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					

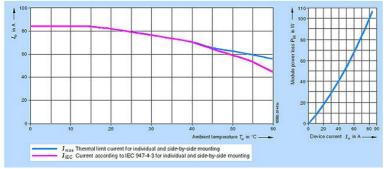
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2370-3BA04/all

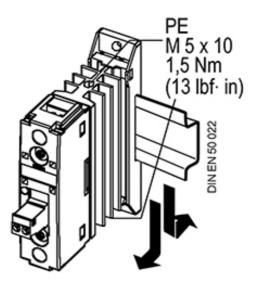
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2370-3BA04











last change:

Aug 22, 2011