SIEMENS

Product data sheet

3RF2370-1BA04

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>3RF2950-0HA16</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>3RF2950-0GA16</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

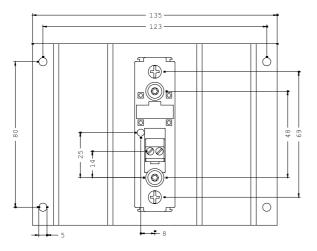
Main circuit:					
Number of NO contacts / for main contacts		1			
Number of NC contacts / for main contacts	_	0			
Operating current	-				
• at AC-1 / at 400 V / rated value	А	70			
• at AC-51 / rated value	А	50			
Operating current / minimum	mA	500			
Operating voltage					
• at 50 Hz / at AC / rated 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			

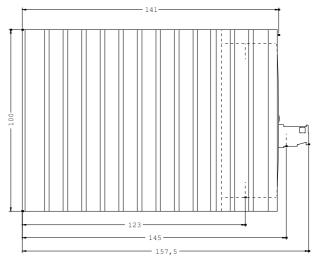
Installation/mounting/dimensions:				
Type of mounting		screw fixing		
Type of fixing/fixation / series installation		Yes		
Design of the thread / of the screw for fastening of the operating resource		M4		
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5		
Width	mm	135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

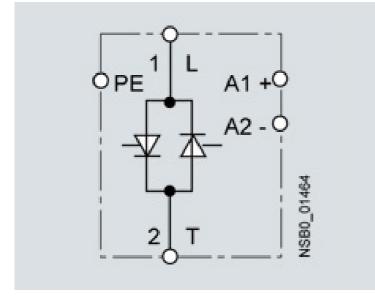
Connections:		
Design of the electrical connection / for main current circuit		screw-type terminals
Design of the thread / of the connection screw / for main contacts		M4
Tightening torque / for main contacts		
with screw-type terminals	N∙m	2 2.5
Tightening torque (Ibf·in) / for main contacts		
with 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 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 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		

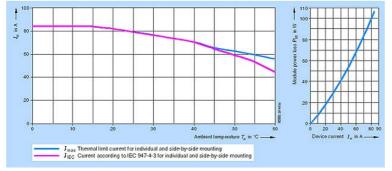
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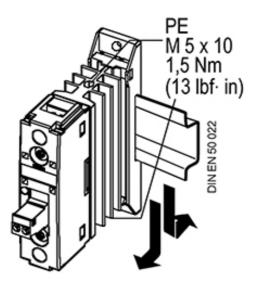
with conductor end processing /	mm²	0.5	2.5		
minimum		0.0	2.0		
without conductor final cutting	mm²	0.5 2.5			
AWG number / as coded connectable conductor cross-section / for main contacts		10 14			
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals			
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/approvals:					
General Product Approval	Test Certificates		other		
ROSTEST Que Manufacturer Manufacturer					
Further information:					
Further information: Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs					
Information- and Downloadcenter (Catalogs, Brochures,)					
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last change:

Aug 22, 2011