SIEMENS

Product data sheet 3RF2370-1BA26

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70A/AC15 27.5A 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		3RF2950-0HA36
Product designation / _4 / of the accessories that can be ordered		load monitoring
Manufacturer article number / _4 / of the accessories that can be ordered		3RF2950-0GA36
Ambient temperature		
during operating	°C	-25 +60
during storage	°C	-55 + 80
Installation altitude / at a height over sea level / maximum	m	1,000
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	Α	70
• at AC-51 / rated value	Α	50
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	83
Resistance against the impulse current / rated value	Α	1,150
I2t-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

Fuse assignments

https://www.automation.siemens.com/cdstatic/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	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 (lbf-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 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 main contacts					
• solid	mm ² 1.5 6				
• stranded wire					
 with conductor end processing 	mm²	n ² 1 10			
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
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 (lbf-in) / for auxiliary and control contacts		
with screw-type terminals	lbf-in	4.5 5.3

Certificates/approvals:

General Produc	t Approval		EMC	Declaration of Conformity	Test Certificates
SP	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)

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

CAx-Online-Generator

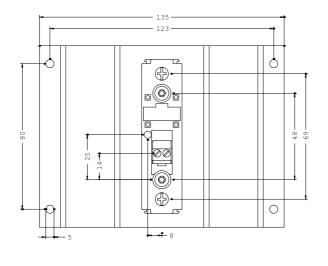
http://www.siemens.com/cax

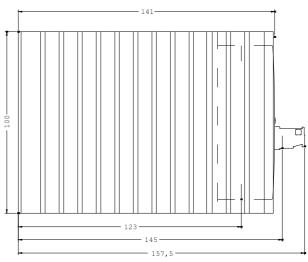
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

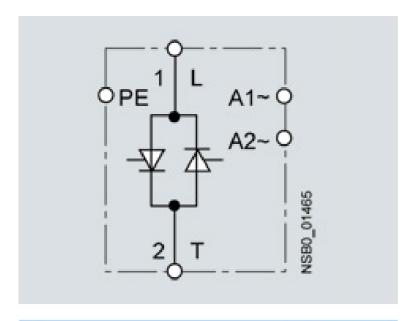
http://support.automation.siemens.com/WW/view/en/3RF2370-1BA26/all

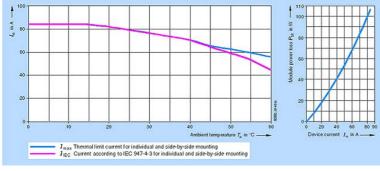
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

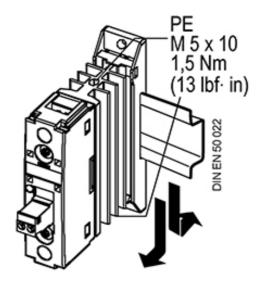
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2370-1BA26}}$











last change: Feb 4, 2013