SIEMENS

3RF2420-2AC55

SEMI-CONDUCTOR CONTAC.3-PH.3RF2 AC51 20A 40 DEG. C 48-600V / 230V AC 3-PHASE CONTROLLED SPRING-LOADED CONNECTION BLOCKING VOLTAGE 1200V

General technical data:		
Product brand name		SIRIUS
product designation		solid-state contactor
Product function	-	zero-point switching
Number of poles / for main current circuit		3
Protection class IP		IP20
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		3
Number of NC contacts / for main contacts		0
Operating current / at AC-1 / at 400 V / rated value	А	20
Operating current / at AC-51 / rated value	А	20
Reverse current / of the thyristor	mA	10
Derating temperature	°C	40
Operating current / minimum	mA	500
Resistance against the impulse current / rated value	А	600
l2t-level / maximum	A²⋅s	1,800
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
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
Fuse assignments		https://www.automation.siemens.com/cd- static/material/info/3RF24_eng.pdf

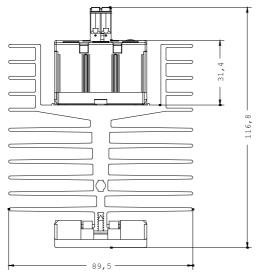
Control circuit:		
Type of voltage / of the controlled supply voltage		AC
Control supply voltage / 1	-	
• at 50 Hz		
• for AC	V	180 230
• at 60 Hz		
• for AC	V	180 230
Control supply voltage frequency		
• 1	Hz	45
• 2	Hz	66
Control supply voltage / at 50 Hz / for AC / final value for signal<0>-recognition	V	180
Control supply voltage / at 60 Hz / for AC / final value for signal<0>-recognition	V	180
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the supply voltage frequency	%	10
Control current		
 at minimum control supply voltage / for AC 	mA	2
• for AC / rated value	mA	15

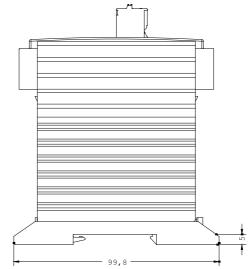
Installation/mounting/dimensions:	
Type of mounting	screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation	Yes
Design of the thread / of the screw for fastening of the operating resource	M4

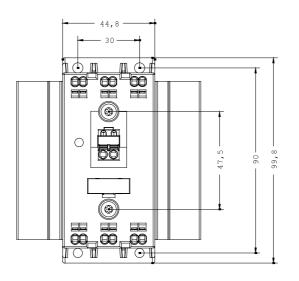
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Width	mm	90
Height	mm	100
Depth	mm	112.5

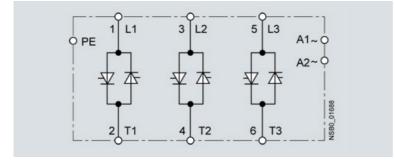
Design of the electrical connection / for main current circuit		spring-loaded terminals
Type of the connectable conductor cross-section	_	
• for main contacts		
• solid		2x (0.5 2.5 mm2)
finely stranded		
 with conductor end processing 		2x (0.5 1.5 mm2)
 without conductor final cutting 		2x (0.5 2.5 mm2)
for AWG conductors		
• for main contacts		2x (18 14)
 for auxiliary and control contacts 		1x (AWG 20 12)
 for auxiliary and control contacts 		
• solid		0.5 1.5 mm2
finely stranded		
 with conductor end processi ng 		0.5 2.5 mm2
 without conductor final cut ting 		0.5 2.5 mm2
Conductor cross section that can be connected		
for main contacts		
• solid	mm²	0.5 2.5
stranded wire		
 with conductor end processing 	mm²	0.5 1.5
without conductor final cutting	mm²	0.5 2.5
 for auxiliary and control contacts 		
• solid	mm²	0.5 1.5
stranded wire		
 with conductor end processing / minimum 	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		14 10
Design of the electrical connection / for auxiliary and control current circuit		spring-loaded terminals
AWG number / as coded connectable conductor cross-section		
 for auxiliary and control contacts 		20 12

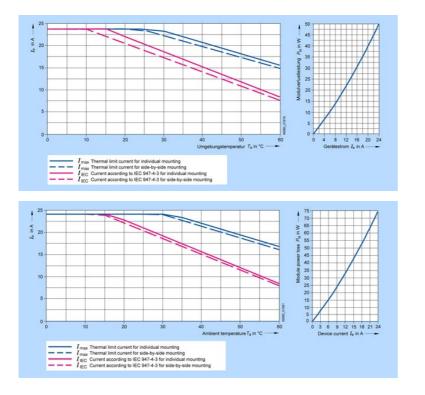
Skinning length / of the cable / for main contacts	mm	10		
Skinning length / of the cable / for auxiliary and control contacts	mm	10		
Certificates/approvals:				
General Product Approval	Test Certific	ates	other	
ROSTEST	Manufacture	r	Manufacturer	
CSA UL				
Further information:				
Information- and 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/3RF2420-2AC55/all				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)				
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2420-2AC55				

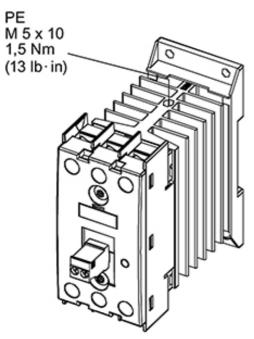












last change:

Aug 22, 2011