SIEMENS

Product data sheet

3RF3412-2BB06



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 12.5A 40 DEGREES C 48-600V / 24V DC 2-PH. CONTROLLED INSTANTANEOUS SPRING-LOADED TERMINALS

General technical data:		
Product brand name		SIRIUS
product designation		solid-state motor contactor
Protection class IP		IP20
Insulation voltage / rated value	V	600
Installation altitude / at a height over sea level / maximum	m	1,000
Ambient temperature		
during storage	°C	-55 80
• during operating	°C	-25 60
Resistance against shock		
according to IEC 60068-2-27		15g / 11 ms
Resistance against vibration		
according to IEC 60068-2-6		2g
Resistance against the impulse current / rated value	А	1,150
Active power loss / total / typical	W	22
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		к
according to DIN EN 61346-2		Q
Product function		instantaneous switching

Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		2
Operating frequency		
rated value	Hz	60 50
Operating voltage	_	
• at 60 Hz / at AC / rated value	V	48 600
• at 50 Hz / at AC / rated value	V	48 600
Operating current		
• minimum	mA	500
• at AC-3 / at 400 V / rated value	А	12.5
Working area related to the operating voltage		
• at 50 Hz / for AC	V	40 660
• at 60 Hz / for AC	V	40 660
Service power / at AC-3 / at 400 V	_	
rated value	kW	5.5
Derating temperature	°C	40
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the operation frequency	%	10
I2t-level / maximum	A²-s	6,600
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
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	30
 for DC / final value for signal<0>-recognition 	V	5
Control current		
• for DC / rated value	mA	15
 at minimum control supply voltage / for DC 	mA	2

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
Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Design of the thread / of the screw for fastening of the operating resource		M4
Width	mm	90
Height	mm	95
Depth	mm	100.8
Distance, to be maintained, to the ranks assembly		
• upwards	mm	70
downwards	mm	50

Connections:

Design of the electrical connection		
for main current circuit		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Product function / removable terminal for auxiliary and control circuit		Yes
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 		
• solid		0.5 1.5 mm2
finely stranded		
 with conductor end processing 		0.5 2.5 mm2
without conductor final cutting		0.5 2.5 mm2
• for AWG conductors / for auxiliary and control contacts		1x (AWG 20 12)
Skinning length / of the cable		
for main contacts	mm	10
 for auxiliary and control contacts 	mm	10

Certificates/approvals:				
Verification of suitabi	ility			CE / UL / CSA / CCC / C-TICK
General Product Approval	Test Certificates	other		
ROSTEST	Manufacturer	Manufacturer		

UL/CSA ratings		
yielded mechanical performance (hp) / for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	2
• at 220/230 V / rated value	hp	2
• at 460/480 V / rated value	hp	5
• at 575/600 V / rated value	hp	5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	7.6
• at 600 V / rated value	А	6.1

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

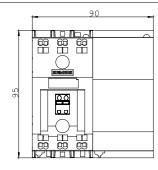
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

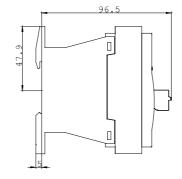
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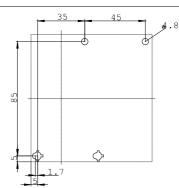
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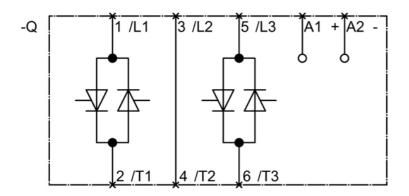
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF3412-2BB06/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF3412-2BB06









last change:

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