SIEMENS

Product data sheet

3RF3405-1BB04



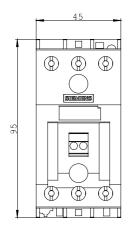
SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-480V / 24V DC 2-PH. CONTROLLED INSTANTANEOUS SCREW TERMINALS

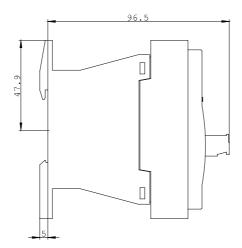
General technical data:		
Product brand name		SIRIUS
product designation		solid-state motor contactor
Protection class IP		IP20
Insulation voltage / rated value	V	600
Installation altitude / at a height over sea level / maximum	m	1,000
Ambient temperature		
during storage	°C	-55 80
during operating	°C	-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	200
Active power loss / total / typical	W	10
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

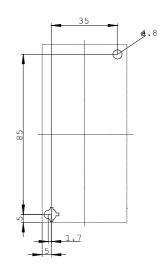
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		2
Operating frequency		
rated value	Hz	60 50
Operating voltage	_	
• at 60 Hz / at AC / rated value	V	48 480
• at 50 Hz / at AC / rated value	V	48 480
Operating current		
• minimum	mA	500
• at AC-3 / at 400 V / rated value	А	5.2
Working area related to the operating voltage	_	
• at 50 Hz / for AC	V	40 506
• at 60 Hz / for AC	V	40 506
Service power / at AC-3 / at 400 V		
rated value	kW	2.2
Derating temperature	°C	40
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the operation frequency	%	10
I2t-level / maximum	A²-s	200
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
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

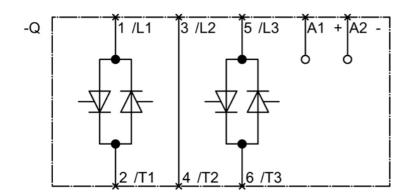
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0
Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
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	45
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		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Design of the thread / of the connection screw		
for main contacts		M4
 of the auxiliary and control pins 		M3
Product function / removable terminal for auxiliary and control circuit		Yes
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 		
• 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)
 for AWG conductors / for auxiliary and control contacts 		1x (AWG 20 12)
Tightening torque		

 for main contacts / with screw-type terminals 		N∙m	2 2.5		
 for auxiliary and control contacts / with screw-type terminals 		N∙m	0.5 0.6		
Tightening torque (Ib	f-in)				
• for main contacts /	with screw-type termina	als	lbf∙in	18 22	
 for auxiliary and co 	ontrol contacts / with scre	ew-type terminals	lbf∙in	7.5 5.3	
Skinning length / of th	ne cable				
• for main contacts			mm	7	
 for auxiliary and co 	ontrol contacts		mm	7	
Certificates/approv	als:				
Verification of suitabi	lity			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	0.5		
• at 220/230 V / rated value		hp	0.75		
• at 460/480 V / rated value		hp	2		
Operating current (FLA) / for three-phase squirrel cage motors		-			
• at 480 V / rated value		А	3.4		
Further information	1:				
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/3RF3405-1BB04/all					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF3405-1BB04					









last change:

Oct 24, 2011