## SIEMENS

## **Product data sheet**

## 3RF3405-1BB06



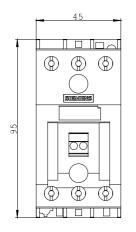
SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-600V / 24V DC 2-PH. CONTROLLED INSTANTANEOUS SCREW TERMINALS

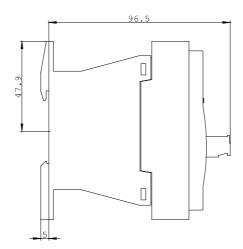
General technical data:				
Product brand name		SIRIUS		
product designation		solid-state motor contactor		
Protection class IP		IP20		
Insulation voltage / rated value	V	600		
Installation altitude / at a height over sea level / maximum	m	1,000		
Ambient temperature				
during storage	°C	-55 80		
during 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	600		
Active power loss / total / typical	W	10		
Item designation				
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		к		
according to DIN EN 61346-2		Q		
Product function		instantaneous switching		

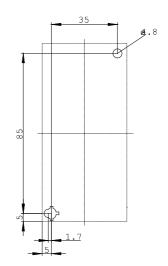
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts	_	0
Number of NO contacts / for main contacts	_	2
Operating frequency		
rated value	Hz	60 50
Operating voltage	_	
• at 60 Hz / at AC / rated value	V	48 600
• at 50 Hz / at AC / rated value	V	48 600
Operating current		
• minimum	mA	500
• at AC-3 / at 400 V / rated value	А	5.2
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	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	1,800
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
<ul> <li>for DC / final value for signal&lt;0&gt;-recognition</li> </ul>	V	5
Control current		
• for DC / rated value	mA	15
<ul> <li>at minimum control supply voltage / for DC</li> </ul>	mA	2

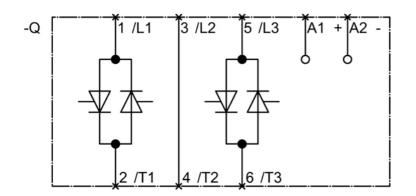
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0
Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
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
<ul> <li>for auxiliary and control current circuit</li> </ul>		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		
<ul> <li>with conductor end processing</li> </ul>		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>for AWG conductors / for main contacts</li> </ul>		2x (14 10)
<ul> <li>for auxiliary and control contacts</li> </ul>		
• 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)
<ul> <li>for AWG conductors / for auxiliary and control contacts</li> </ul>		1x (AWG 20 12)
Tightening torque		

• for main contacts / with screw-type termine	als	N∙m	2 2.5		
<ul> <li>for auxiliary and control contacts / with screw-type terminals</li> </ul>		N∙m	0.5 0.6		
Tightening torque (Ibf-in)					
<ul> <li>for main contacts / with screw-type terminals</li> </ul>		lbf∙in	18 22		
• for auxiliary and control contacts / with screw-type terminals		lbf∙in	7.5 5.3		
Skinning length / of the cable					
for main contacts		mm	7		
<ul> <li>for auxiliary and control contacts</li> </ul>		mm	7		
Certificates/approvals:					
Verification of suitability			CE / UL / CSA / CCC / C-TICK		
General Product Test Certificates Approval	other				
ROSTEST Manufacturer	Manufacturer				
UL/CSA ratings					
yielded mechanical performance (hp) / for t cage motors	hree-phase squirrel				
• 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		
• at 575/600 V / rated value		hp	2		
Operating current (FLA) / for three-phase squirrel cage motors					
• at 480 V / rated value		А	3.4		
• at 600 V / rated value		А	2.7		
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/3RF3405-1BB06/all					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF3405-1BB06					









last change:

Oct 21, 2011