# **SIEMENS**

Product data sheet 3RF3405-2BB04



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-480V / 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	Α	200
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

Main circuit:		
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	Α	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
• 101 DC / Tateu value		

# Auxiliary circuit:

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		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		
<ul> <li>with conductor end processing</li> </ul>		2x (0.5 1.5 mm²)
<ul> <li>without conductor final cutting</li> </ul>		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		
<ul> <li>with conductor end processing</li> </ul>		0.5 2.5 mm2
<ul> <li>without conductor final cutting</li> </ul>		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 suitability CE / UL / CSA / CCC / C-TICK General Product Approval 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	Α	3.4	

## **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**

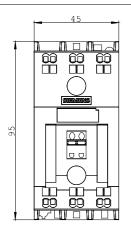
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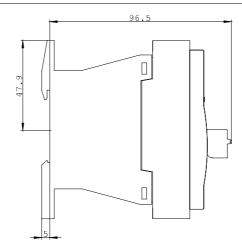
## Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

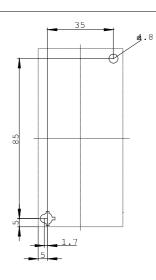
http://support.automation.siemens.com/WW/view/en/3RF3405-2BB04/all

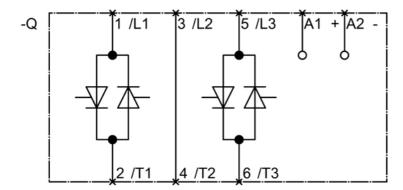
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF3405-2BB04









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