## **SIEMENS**

Product data sheet 3RF3405-2BB26



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-600V / 110-230V AC 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
Shock resistance		
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	600
Active power loss / total / typical	W	10
Reference code		
<ul> <li>according to DIN 40719 extended according to 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	48 600
• at 50 Hz / at AC / rated value	V	48 600
Operating current		
• minimum	mA	500
• at AC-3 / at 400 V / rated value	Α	5.2
Working range relative to the operating voltage		
• at 50 Hz / with AC	V	40 660
• at 60 Hz / with 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	A <sup>2</sup> ·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/ Control:		
		00
Voltage type / of control feed voltage		AC
Control supply voltage frequency  • 1 / rated value	Hz	50
• 1 / rated value • 2 / rated value	Hz	60
Relative symmetrical tolerance	I IZ	
of the control supply voltage frequency	%	10
of the supply voltage frequency	%	10
Control supply voltage		
• 1		
• at 50 Hz / for AC		
• at 50 Hz / 101 AC  • initial rated value	V	90
	V	
final rated value	V	253

• at 60 Hz / for AC		
• initial rated value	V	90
• final rated value	V	253
• at 50 Hz / for AC / final value for signal<0>-recognition	V	40
• at 60 Hz / for AC / final value for signal<0>-recognition	V	40
Control current		
• for AC / rated value	mA	15
• at minimum control supply voltage / for AC	mA	2
switching times		
ON delay		5 ms
OFF delay		30 ms + in addition max. one half-wave

Auxiliary circuit:	
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0
Number of changeover contacts / for auxiliary contacts	0

Installation/ mounting/ dimensions:		
mounting position		vertical
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Mounting type / 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
Distance, to be maintained, to the ranks assembly / downwards	mm	50

Connections/ terminals:	
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
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 suitability CE / UL / CSA / CCC / C-TICK

General Product Approval EMC Declaration of













Conformity

**Test Certificates** 

other

Type Test
Certificates/Test
Report

Environmental Confirmations

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
• at 575/600 V / rated value	hp	2
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	Α	3.4
• at 600 V / rated value	Α	2.7

## Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

 $\underline{\text{http://www.siemens.com/industrial-controls/catalogs}}$ 

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/

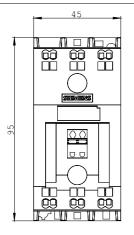
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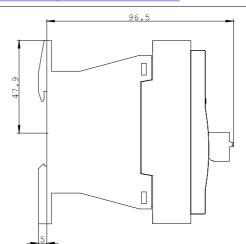
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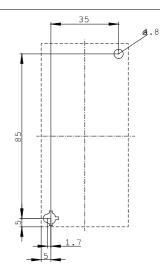
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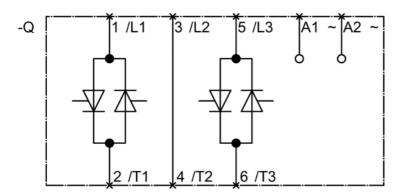
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF3405-2BB26









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