# **SIEMENS**

# Data sheet

# 3RF3405-1BB26



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-600V / 110-230V AC 2-PH. CONTROLLED INSTANTANEOUS SCREW TERMINALS

General technical data:		
product brand name		SIRIUS
Product designation _2 of the accessories that can	_	Connection adapter
be ordered		
Product designation _1 of the accessories that can		Link module
be ordered		
Manufacturer article number		
<ul> <li>_1 of the accessories that can be ordered</li> </ul>		<u>3RA2921-1BA00</u>
<ul> <li>_2 of the accessories that can be ordered</li> </ul>		3RF3900-0QA88
Protection class IP	_	IP20
Insulation voltage Rated value	V	600
Installation altitude at height above sea level	m	1 000
maximum		
Ambient temperature		
during storage	°C	-55 +80
• during operation	°C	-25 +60
Shock resistance acc. to IEC 60068-2-27		15g / 11 ms
Vibration resistance acc. to IEC 60068-2-6	_	2g
Surge current resistance Rated value	А	600
Active power loss total typical	W	10
Equipment marking acc. to DIN 40719 extended		К
according to IEC 204-2 acc. to IEC 750		
Equipment marking acc. 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 with AC	-	
• at 60 Hz Rated value	V	48 600
• at 50 Hz Rated value	V	48 600
Operating current	-	
• minimum	mA	500
• at AC-3 at 400 V Rated value	А	5.2
Operating range relative to the operating voltage with AC	-	
• at 50 Hz	V	40 660
• at 60 Hz	V	40 660
Operating power at AC-3 at 400 V Rated value	kW	2.2
Derating temperature	°C	40
Symmetrical line frequency tolerance	Hz	5
Relative symmetrical tolerance of the operating frequency	%	10
I2t value maximum	A²·s	1 800
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/µs	1 000
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 600
Reverse current of the thyristor	mA	10

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage frequency		
• 1 Rated value	Hz	50
• 2 Rated value	Hz	60
Relative symmetrical tolerance	_	
<ul> <li>of the control supply voltage frequency</li> </ul>	%	10
<ul> <li>of the supply voltage frequency</li> </ul>	%	10
Control supply voltage 1	_	
• with AC		
— at 50 Hz Initial rated value	V	90
— at 50 Hz Final rated value	V	253
— at 60 Hz Initial rated value	V	90
— at 60 Hz Final rated value	V	253
Control supply voltage with AC		
<ul> <li>at 50 Hz Full-scale value for signal&lt;0&gt; recognition</li> </ul>	V	40

<ul> <li>at 60 Hz Full-scale value for signal&lt;0&gt; recognition</li> </ul>	V	40
Control current		
<ul> <li>with AC Rated value</li> </ul>	mA	15
<ul> <li>at minimum control supply voltage</li> </ul>		
— with 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 CO contacts for auxiliary contacts		0
Installation/ mounting/ dimensions:		

Installation/ mounting/ dimensions:				
mounting position		vertical		
Mounting type	_	screw and snap-on mounting onto 35 mm standard mounting rail		
Mounting type Side-by-side mounting		Yes		
Tightening torque of the screw for securing the equipment	N∙m	1.5		
Design of the thread of the screw for securing the equipment		M4		
Width	mm	45		
Height	mm	95		
Depth	mm	100.8		
Required spacing with side-by-side mounting				
• upwards	mm	70		
• downwards	mm	50		

## Connections/ Terminals:

Connections/ Terminals.	
Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Design of the thread of the connection screw	
<ul> <li>for main contacts</li> </ul>	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Product function removable terminal for auxiliary and control circuit	Yes
Type of connectable conductor cross-section	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (0.5 2.5 mm²)
— finely stranded	
— with core end processing	2x (0.5 1.5 mm²)

	E		ПСК	EG-Konf.
General Product Approval		EM	C	Declaration of Conformity
Certificate of suitability		CE / UL / CSA / CO	CC / C-TICK	
Certificates/ approvals:				
<ul> <li>for auxiliary and control contacts</li> </ul>	mm	7		
• for main contacts	mm	7		
type terminals Wire stripping length of the cable				
<ul> <li>for auxiliary and control contacts with screw- type terminale</li> </ul>	lbf∙in	7.5 5.3		
<ul> <li>for main contacts with screw-type terminals</li> </ul>		18 22		
Tightening torque [lbf·in]				
<ul> <li>for auxiliary and control contacts with screw- type terminals</li> </ul>	N∙m	0.5 0.6	0.5 0.6	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	N∙m	2 2.5		
Tightening torque				
<ul> <li>— without core end processing</li> </ul>		1x (0.5 2.5 mm²)	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	
— with core end processing		1x (0.5 2.5 mm²)	, 2x (0.5 1.	0 mm²)
— finely stranded				
— solid		1x (0.5 2.5 mm²), 2x (0.5		. 1.0 mm²)
<ul> <li>for auxiliary and control contacts</li> </ul>				
- for auxiliary and control contacts		1x (AWG 20 12)		
<ul> <li>for main contacts</li> </ul>		2x (18 14)		

Certificates		
Type Test	Environmental	
Certificates/Test	Confirmations	
Report		

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
• at 200/208 V Rated value	metric hp	0.5
• at 220/230 V Rated value	metric hp	0.75

• at 460/480 V Rated value	metric hp	2
• at 575/600 V Rated value	metric hp	2
Full-load current (FLA) for three-phase AC motor		
• 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

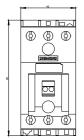
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

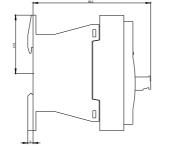
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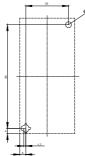
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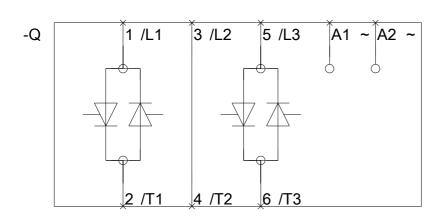
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF34051BB26/all

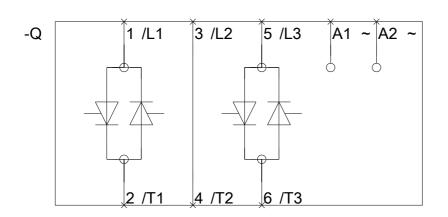
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF34051BB26&lang=en

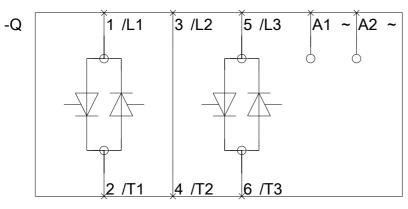












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