## **SIEMENS**

Data sheet 3RF3405-1BB24



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-480V / 110-230V AC 2-PH. CONTROLLED INSTANTANEOUS SCREW TERMINALS

General technical data		
product brandname		SIRIUS
Product designation _2 of the accessories that can be ordered		Connection adapter
Product designation _1 of the accessories that can be ordered		Link module
Manufacturer's article number		
<ul><li>_1 of the accessories that can be ordered</li></ul>		3RA2921-1BA00
<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 maximum	m	1 000
Ambient temperature		
during storage	°C	-55 <b>+</b> 80
<ul> <li>during operation</li> </ul>	°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	Α	200

W	10 K Q instantaneous switching
	Q
	instantaneous switching
	3
	2
Hz	60 50
V	48 480
V	48 480
mA	100
Α	5.2
V	40 506
V	40 506
kW	2.2
°C	40
Hz	5
%	10
A²-s	200
V/µs	1 000
V	1 200
mA	10
	AC
Hz	50
Hz	60
%	10
%	10
V	90
V	253
	V mA A  V V kW °C Hz % A²·s V/µs V mA  Hz Hz % %

<ul> <li>at 60 Hz Initial rated value</li> </ul>	V	90
— at 60 Hz Final rated value	V	253
Control supply voltage at AC		
<ul><li>initial value for signal &lt;1&gt; detection</li></ul>	V	90
<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		
at AC rated value	mA	15
<ul> <li>at minimum control supply voltage</li> </ul>		
— at AC	mA	2
switching times		
● ON delay		5 ms
OFF delay		30 ms + in addition max. one half-wave

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
<ul><li>downwards</li></ul>	mm	50

Connections/Terminals	
Type of 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
<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-sections	
• for main contacts	
— solid	2x (0.5 2.5 mm²)

— finely stranded		
<ul> <li>— with core end processing</li> </ul>		2x (0.5 1.5 mm²)
• at AWG conductors		
— for main contacts		2x (18 14)
<ul> <li>for auxiliary and control contacts</li> </ul>		1x (AWG 20 12)
<ul> <li>for auxiliary and control contacts</li> </ul>		
— solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— finely stranded		
<ul> <li>— with core end processing</li> </ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>— without core end processing</li> </ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	N·m	2 2.5
<ul> <li>for auxiliary and control contacts with screw-</li> </ul>	N·m	0.5 0.6
type terminals		
Tightening torque [lbf-in]		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	lbf·in	18 22
<ul> <li>for auxiliary and control contacts with screw-</li> </ul>	lbf·in	7.5 5.3
type terminals		
Wire stripping length of the cable		
• for main contacts	mm	7
<ul> <li>for auxiliary and control contacts</li> </ul>	mm	7
UL/CSA ratings		
Full-load current (FLA) for three-phase AC motor		
• at 480 V rated value	Α	3.4
Yielded mechanical performance [hp] for three-phase		
AC motor		
• at 200/208 V rated value	hp	0.5

hp

hp

0.75

2

## Certificates/approvals

at 220/230 V rated valueat 460/480 V rated value

General Product Approval EMC Declaration of Conformity













## Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF3405-1BB24

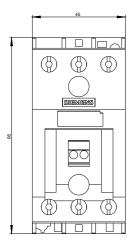
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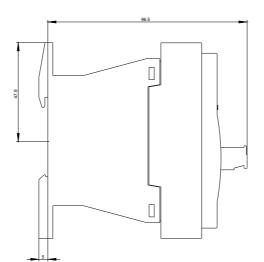
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF3405-1BB24

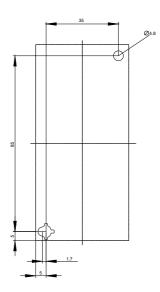
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

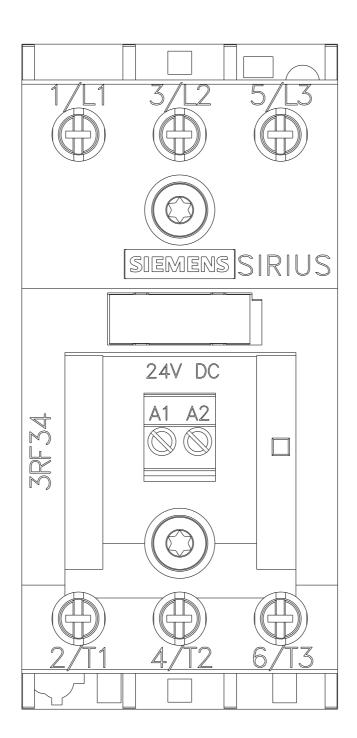
https://support.industry.siemens.com/cs/ww/en/ps/3RF3405-1BB24

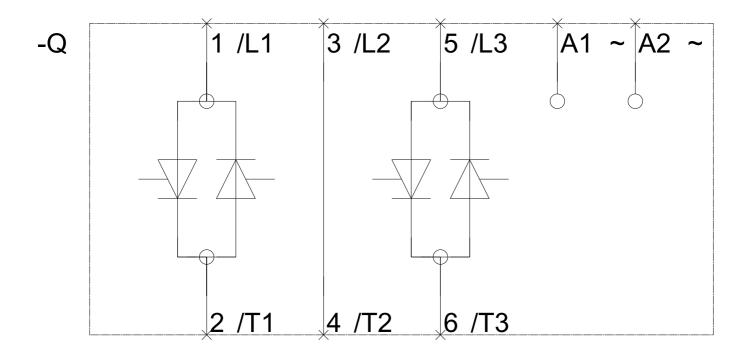
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF3405-1BB24&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF3405-1BB24&lang=en</a>











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