SIEMENS

Data sheet 3RF3403-1BD04



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 3.8A 40 DEGREES C 48-480V / 24V DC REVERSE SWITCHING 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		
_1 of the accessories that can be ordered		3RA2921-1BA00
_2 of the accessories that can be ordered		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	Α	600
Active power loss total typical	W	7
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		reversing switch

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	48 480
• at 50 Hz Rated value	V	48 480
Operating current		
• minimum	mA	500
• at AC-3 at 400 V Rated value	Α	3.8
Operating range relative to the operating voltage with AC		
● at 50 Hz	V	40 506
• at 60 Hz	V	40 506
Operating power at AC-3 at 400 V Rated value	kW	1.5
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	1 200
Reverse current of the thyristor	mA	10
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• for DC		
— Initial rated value	V	15
— Final rated value	V	30
Control supply voltage for DC Full-scale value for signal<0> recognition	V	5
Control current		
at minimum control supply voltage		
— for DC	mA	2
• for DC Rated value	mA	15
Switchover delay of reversing contactor	ms	60 100
switching times		
ON delay		5 ms
OFF delay		5 ms + in addition max. one half-wave
Auxiliary circuit:		

Number of NO contacts for auxiliary contacts		0
Number of CO contacts for auxiliary contacts		0
notallation/ mounting/ dimensions:		
nstallation/ 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	113.8
Required spacing with side-by-side mounting		
• upwards	mm	70
• downwards	mm	50
Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Design of the thread of the connection screw		
• for main contacts		M4
 of the auxiliary and control contacts 		M3
Product function removable terminal for auxiliary and control circuit		Yes
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
— finely stranded		
 with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
• for AWG conductors		
— for main contacts		2x (14 10)
— for auxiliary and control contacts		1x (AWG 20 12)
for auxiliary and control contacts		
— solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— finely stranded		

Tightening torque

- with core end processing

- without core end processing

• for main contacts with screw-type terminals

 $N \cdot m$

2 ... 2.5

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)

 for auxiliary and control contacts with screw- type terminals 	N·m	0.5 0.6
Tightening torque [lbf·in]		
 for main contacts with screw-type terminals 	lbf∙in	18 22
 for auxiliary and control contacts with screw- type terminals 	lbf∙in	7.5 5.3
Wire stripping length of the cable		
• for main contacts	mm	10
 for auxiliary and control contacts 	mm	7

Certificates/ approvals:

Certificate of suitability CE / UL / CSA / CCC / C-TICK

General Product Approval EMC Declaration of Conformity













UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
• at 200/208 V Rated value	metric	0.5
	hp	
• at 220/230 V Rated value	metric	0.75
	hp	
• at 460/480 V Rated value	metric	2
	hp	
Full-load current (FLA) for three-phase AC motor		
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)

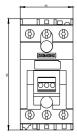
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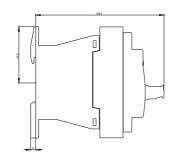
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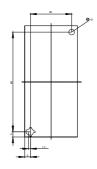
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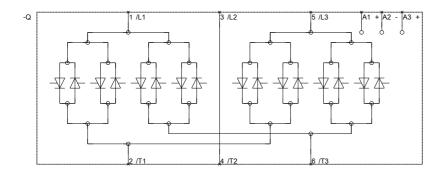
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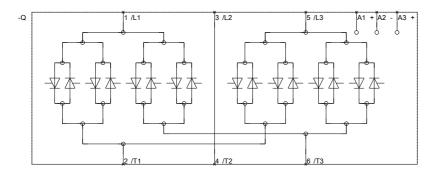
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF34031BD04&lang=en

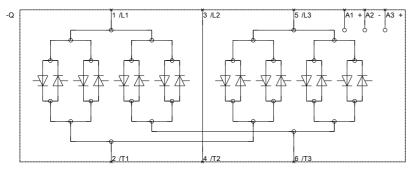












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