SIEMENS

Data sheet

3RF3405-1BD04



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.4A 40 DEGREES C 48-480V / 24V DC REVERSE SWITCHING INSTANTANEOUS SCREW TERMINALS

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	А	600	
Active power loss total typical	W	9	
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		К	
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	А	5.4
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	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	1 200
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 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: 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		
— with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— without core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Tightening torque		
 for main contacts with screw-type terminals 	N∙m	2 2.5

 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/ approv	als:				
Certificate of suitabil	lity		CE / UL / CSA	A / CCC / C-TIC	CK
General Produc	t Approval			EMC	Declaration of Conformity
CCC	CSA CSA	ER][С-ТІСК	EG-Konf.
Test Certificates	other				
Type Test Certificates/Test	Environmental Confirmations				

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
• at 200/208 V Rated value	metric	1
	hp	
 at 220/230 V Rated value 	metric	1
	hp	
 at 460/480 V Rated value 	metric	3
	hp	
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	А	4.8

Further information

Report

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

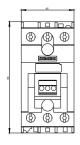
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

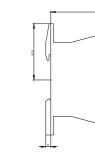
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF34051BD04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF34051BD04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF34051BD04&lang=en





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