SIEMENS

Data sheet

3RF3410-1BB04



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 9.2A 40 DEGREES C 48-480V / 24V DC 2-PH. CONTROLLED 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	16	
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	

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	9.2
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	4
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
switching times		
• ON delay		1 ms
• OFF delay		1 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

nounting 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	90
Height	mm	95
Depth	mm	100.8
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		$1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.0 \text{ mm}^2)$
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	7
 for auxiliary and control contacts 	mm	7

Certificates/ approvals:

Certificate of suitabil	ity	CE / UI	L / CSA / CCC / C-TIC	K
General Produc	t Approval		EMC	Declaration of Conformity
	CSA	EHC	С-ТІСК	EG-Konf.
Test Certificates	other			
Type Test Certificates/Test Report	Environmental Confirmations			

yielded mechanical performance [hp] for three-phase	se	
AC motor		
• at 200/208 V Rated value	metric	1.5
	hp	
• at 220/230 V Rated value	metric	2
	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

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