SIEMENS

Data sheet 3RF3412-1BB04



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 12.5A 40 DEGREES C 48-480V / 24V DC 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		
_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	1 200
Active power loss total typical	W	22
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

_	3
_	0
	2
Hz	60 50
-	
V	48 480
V	48 480
_	
mA	500
Α	12.5
V	40 506
V	40 506
kW	5.5
°C	40
Hz	5
%	10
	7 200
V/µs	1 000
V	1 200
mA	10
	DC
-	
V	15
V	30
V	5
mA	2
mA mA	2 15
	15
	15 1 ms
	15 1 ms
	V V mA A V V kW °C Hz % A²-s V/µs V mA

Number of CO contacts for auxiliary contacts		0
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	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		
for main contacts— solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
— solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
— solid— finely stranded		
— solid— finely stranded— with core end processing		

• for auxiliary and control contacts

- with core end processing

- without core end processing

• for main contacts with screw-type terminals

- solid

Tightening torque

- finely stranded

2 ... 2.5

0.5 ... 0.6

 $N \cdot m$

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

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

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

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

0 110		
Certificat	tes/	approvals:
OCI tillou		appiovais.

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

General Product Approval EMC Declaration of Conformity













Test	other
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	2
	hp	
● at 220/230 V Rated value	metric	2
	hp	
• at 460/480 V Rated value	metric	5
	hp	
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	7.6

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=3RF34121BB04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF34121BB04/all











