SIEMENS

Data sheet 3RF3410-2BB04



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

General technical data:		
product brand name		SIRIUS
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	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

Main circuit:		
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	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
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	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		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Product function removable terminal for auxiliary and control circuit		Yes
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (0.5 2.5 mm²)
— finely stranded		
 — with core end processing 		2x (0.5 1.5 mm²)
 — without core end processing 		2x (0.5 2.5 mm²)
 for AWG conductors 		
— for main contacts		2x (18 14)
 for auxiliary and control contacts 		1x (AWG 20 12)
 for auxiliary and control contacts 		
— solid		0.5 1.5 mm²
— finely stranded		
— with core end processing		0.5 2.5 mm²
 — without core end processing 		0.5 2.5 mm²
Wire stripping length of the cable		
• for main contacts	mm	10
 for auxiliary and control contacts 	mm	10

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	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	Α	4.8

Further information

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=3RF34102BB04

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

http://support.automation.siemens.com/WW/view/en/3RF34102BB04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RF34102BB04&lang=en











