SIEMENS

Data sheet

3RF3405-2BB04



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 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	А	200
Active power loss total typical	W	10
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	100
at AC-3 at 400 V Rated value	А	5.2
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	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	200
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	V	5
signal<0> recognition		
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
nstallation/ mounting/ dimensions:		
mounting position		vertical
Mounting type		screw and snap-on mounting onto 35 mm standard
		mounting rail

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	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 Produ	ict Approval		EMC	Declaration of Conformity
	CSA	EHC	Стіск	EG-Konf.
Test Certificates	other			

L/CSA ratings:		
rielded 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	А	3.4

Further information

Type Test

Certificates/Test

Report

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

Environmental

Confirmations

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=3RF34052BB04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF34052BB04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF34052BB04&lang=en







