SIEMENS

Data sheet 3RF3416-2BB26



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 16A 40 DEGREES C 48-600V / 110-230V AC 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	1 150
Active power loss total typical	W	28
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	48 600
• at 50 Hz Rated value	V	48 600

Operating current			
• minimum	mA	500	
• at AC-3 at 400 V Rated value	Α	16	
Operating range relative to the operating voltage with			
AC			
● at 50 Hz	V	40 660	
● at 60 Hz	V	40 660	
Operating power at AC-3 at 400 V Rated value	kW	7.5	
Derating temperature	°C	40	
Symmetrical line frequency tolerance	Hz	5	
Relative symmetrical tolerance of the operating frequency	%	10	
I2t value maximum	A ² ·s	6 600	
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	1 600	
Reverse current of the thyristor	mA	10	
Control circuit/ Control:			
Type of voltage of the control supply voltage		AC	
Control supply voltage frequency			
• 1 Rated value	Hz	50	
• 2 Rated value	Hz	60	
Relative symmetrical tolerance			
 of the control supply voltage frequency 	%	10	
 of the supply voltage frequency 	%	10	
Control supply voltage 1			
• with AC			
 at 50 Hz Initial rated value 	V	90	
— at 50 Hz Final rated value	V	253	
 at 60 Hz Initial rated value 	V	90	
— at 60 Hz Final rated value	V	253	
Control supply voltage with AC			
 at 50 Hz Full-scale value for signal<0> recognition 	V	40	
 at 60 Hz Full-scale value for signal<0> recognition 	V	40	
Control current			
• with AC Rated value	mA	15	
at minimum control supply voltage			
— with AC	mA	2	
switching times			

Operating current

OFF delay	30 ms + in addition max. one half-wave
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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/ app	rovals:			
Certificate of suita	ability	CE / UL /	CSA / CCC / C-TIC	K
General Prod	luct Approval		EMC	Declaration of Conformity
		FMF		













Test Certificates	other
Type Test Certificates/Test	Environmental Confirmations
Report	Committations

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	
● at 575/600 V Rated value	metric	7.5
	hp	
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	7.6
• at 600 V Rated value	Α	9

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=3RF34162BB26

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF34162BB26/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF34162BB26&lang=en











