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 brandname		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
Power loss [W] 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 NO contacts for main contacts	-	2
Operating frequency rated value	Hz	60 50
Operating voltage at AC	-	
• at 60 Hz rated value	V	48 480
• at 50 Hz rated value	V	48 480
Operating current	_	
• minimum	mA	100
• at AC-53a at 400 V at ambient temperature 40	А	5.2
°C rated value		
Operating range relative to the operating voltage at 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		
• at DC		
— Initial rated value	V	15
— Final rated value	V	24
 rated value maximum permissible 	V	30
Control supply voltage at DC		
 initial value for signal <1> detection 	V	15
 Full-scale value for signal<0> recognition 	V	5
Control current	_	
 at minimum control supply voltage 		
— at DC	mA	2
• at DC rated value	mA	15
switching times		
• ON delay		1 ms
• OFF delay		1 ms + in addition max. one half-wave
Installation/ mounting/ dimensions		

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	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		Yes
Type of connectable conductor cross-sections		
 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)
 at 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
UL/CSA ratings		
Full-load current (FLA) for three-phase AC motor		
• at 480 V rated value	А	3.4
Yielded mechanical performance [hp] for three-phase AC motor		

• at 200/208 V rated value	hp	0.5
• at 220/230 V rated value	hp	0.75
• at 460/480 V rated value	hp	2

Certificates/appro	ovals			
General Prod	luct Approval		EMC	Declaration of
				Conformity
	CSA	EHC	C-Tick	EG-Konf.

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

Further information

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

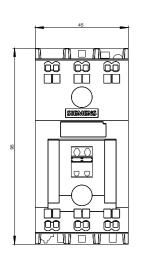
Industry Mall (Online ordering system)

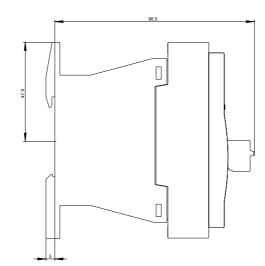
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF3405-2BB04

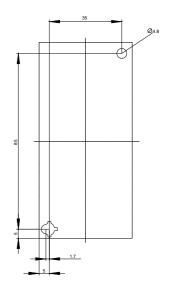
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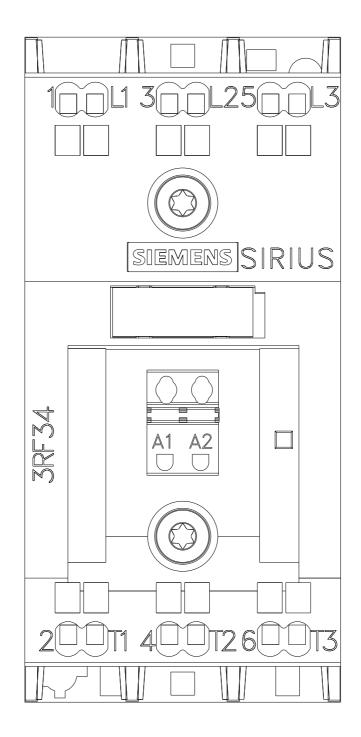
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF3405-2BB04

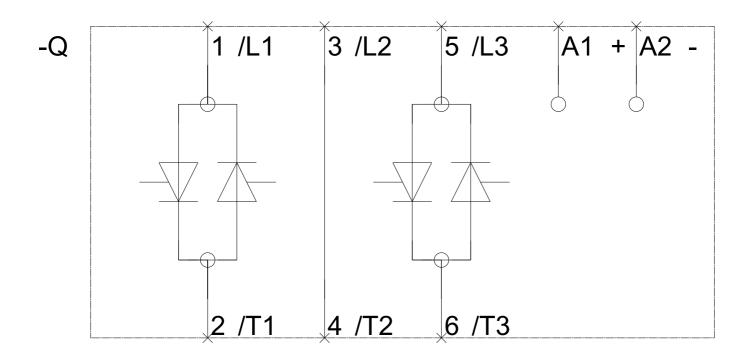
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF3405-2BB04&lang=en











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