SIEMENS

Data sheet 3RF3405-1BB06



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-600V / 24V DC 2-PH. CONTROLLED INSTANTANEOUS SCREW TERMINALS

General technical data			
product brandname		SIRIUS	
Product designation _2 of the accessories that can be ordered		Connection adapter	
Product designation _1 of the accessories that can be ordered		Link module	
Manufacturer's 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 maximum	m	1 000	
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	

Dower loss IMI total timing!	\\/	10
Power loss [W] total typical Equipment marking acc. to DIN 40719 extended	W	10 K
according to IEC 204-2 acc. to IEC 750		r.
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	48 600
• at 50 Hz rated value	V	48 600
Operating current		
• minimum	mA	500
 at AC-53a at 400 V at ambient temperature 40 C rated value 	Α	5.2
Operating range relative to the operating voltage at		
AC		
● at 50 Hz	V	40 660
● at 60 Hz	V	40 660
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	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	1 600
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			
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	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-sections	
• for main contacts	
— solid	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
— finely stranded	
 — with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 at AWG conductors 	
— for main contacts	2x (14 10)
 for auxiliary and control contacts 	1x (AWG 20 12)
 for auxiliary and control contacts 	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— finely stranded	
— with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 without core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

Tightening torque		
 for main contacts with screw-type terminals 	N·m	2 2.5
 for auxiliary and control contacts with screw- type terminals 	N·m	0.5 0.6
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

UL/CSA ratings			
Full-load current (FLA) for three-phase AC motor			
● at 480 V rated value	Α	3.4	
• at 600 V rated value	Α	2.7	
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	
• at 575/600 V rated value	hp	2	

General Product Approval	EMC	Declaration of	Test
		Conformity	Certificates











Type Test Certificates/Test Report

other

Environmental Confirmations

Confirmation

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

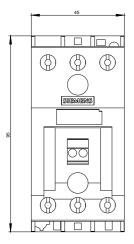
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF3405-1BB06

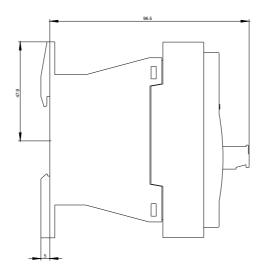
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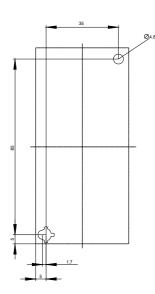
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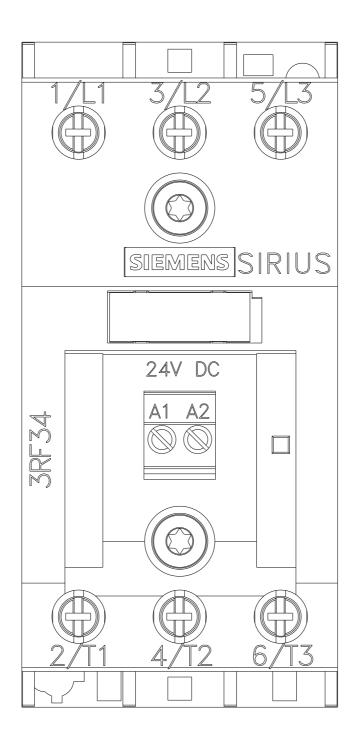
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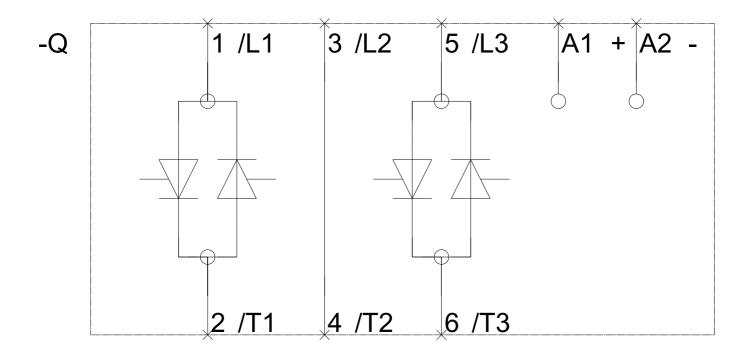
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF3405-1BB06&lang=en











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