



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

General technical data:

Product brand name		SIRIUS
product designation		solid-state motor contactor
Protection class IP		IP20
Insulation voltage / rated value	V	600
Installation altitude / at a height over sea level / maximum	m	1,000
Ambient temperature		
• during storage	°C	-55 ... 80
• during operating	°C	-25 ... 60
Resistance against shock		
• according to IEC 60068-2-27		15g / 11 ms
Resistance against vibration		
• according to IEC 60068-2-6		2g
Resistance against the impulse current / rated value	A	600
Active power loss / total / typical	W	10
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
• according 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		
• at 60 Hz / at AC / rated value	V	48 ... 600
• at 50 Hz / at AC / rated value	V	48 ... 600
Operating current		
• minimum	mA	500
• at AC-3 / at 400 V / rated value	A	5.2
Working area related to the operating voltage		
• at 50 Hz / for AC	V	40 ... 660
• at 60 Hz / for AC	V	40 ... 660
Service power / at AC-3 / at 400 V		
• rated value	kW	2.2
Derating temperature	°C	40
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the operation frequency	%	10
I ² t-level / maximum	A ² ·s	1,800
Voltage slew rate / at the thyristor / for main contacts		
• maximum permissible	V/μs	1,000
Block voltage / at the thyristor / for main contacts		
• maximum permissible	V	1,600
Reverse current / of the thyristor	mA	10
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage		
• 1		
• for DC		
• initial rated value	V	15
• for DC / final value for signal<0>-recognition	V	5
Control current		
• for DC / rated value	mA	15
• at minimum control supply voltage / for DC	mA	2
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts		0

Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0

Installation/mounting/dimensions:

Built in orientation		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Tightening torque / of the screw for fastening of the operating resource	N·m	1.5
Design of the thread / of the screw for fastening of the operating resource		M4
Width	mm	45
Height	mm	95
Depth	mm	100.8
Distance, to be maintained, to the ranks assembly		
• upwards	mm	70
• downwards	mm	50

Connections:

Design of the 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 the connectable conductor cross-section		
• for main contacts		
• solid		2x (0.5 ... 2.5 mm²)
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm²)
• without conductor final cutting		2x (0.5 ... 2.5 mm²)
• for AWG conductors / for main contacts		2x (18 ... 14)
• for auxiliary and control contacts		
• solid		0.5 ... 1.5 mm²
• finely stranded		
• with conductor end processing		0.5 ... 2.5 mm²
• without conductor final cutting		0.5 ... 2.5 mm²
• for AWG conductors / for auxiliary and control contacts		1x (AWG 20 ... 12)
Skinning length / of the cable		
• for main contacts	mm	10
• for auxiliary and control contacts	mm	10

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC / C-TICK

General Product Approval

[ROSTEST](#)

Test Certificates

[Manufacturer](#)

other

[Manufacturer](#)

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel cage motors

- at 200/208 V / rated value
- at 220/230 V / rated value
- at 460/480 V / rated value
- at 575/600 V / rated value

hp	0.5
hp	0.75
hp	2
hp	2

Operating current (FLA) / for three-phase squirrel cage motors

- at 480 V / rated value
- at 600 V / rated value

A	3.4
A	2.7

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

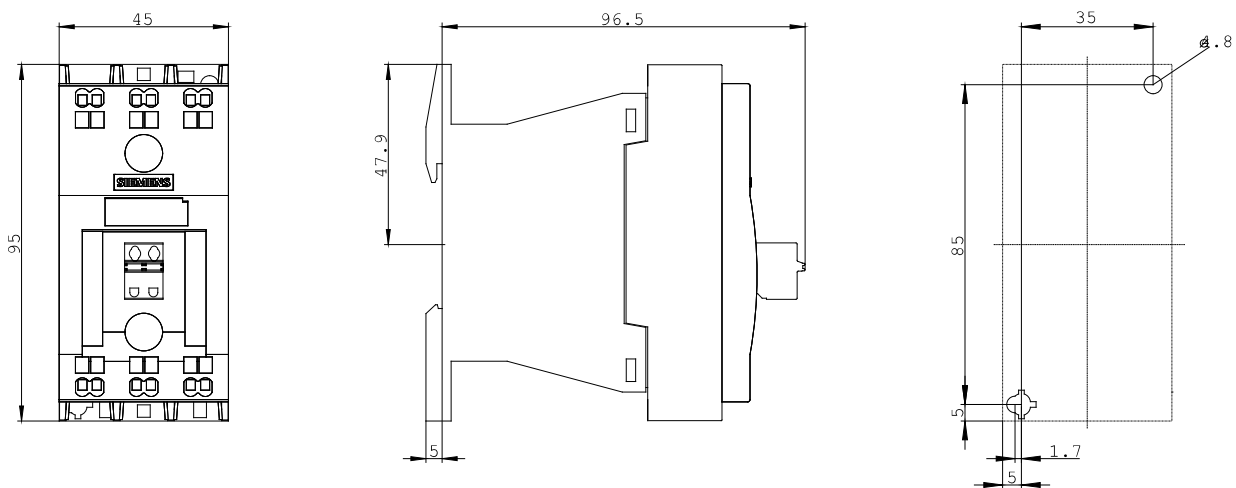
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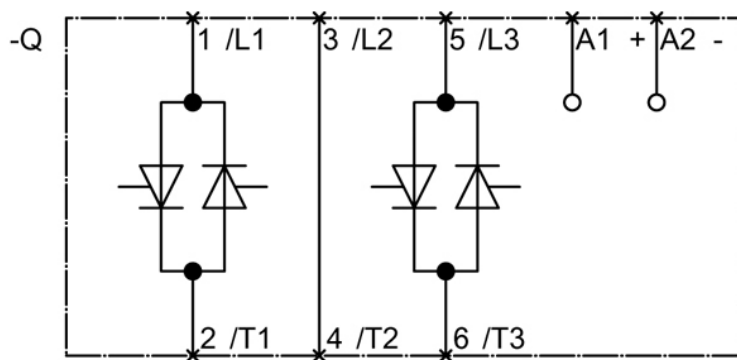
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RF3405-2BB06/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF3405-2BB06





last change:

Oct 21, 2011