

SIRIUS soft starter 22.5mm 3 A, 1.1 kW/400 V, 40 °C
200-400 V AC, 24-230 V AC/DC Screw terminals



General technical data		
Product brand name		SIRIUS
Product feature		
• integrated bypass contact system		No
• Thyristors		Yes
Product function		
• Intrinsic device protection		No
• motor overload protection		No
• Evaluation of thermistor motor protection		No
• External reset		No
• Adjustable current limitation		No
• inside-delta circuit		No
Product component Motor brake output		No
Insulation voltage rated value	V	600
Degree of pollution		3, acc. to IEC 60947-4-2
Reference code acc. to DIN EN 61346-2		Q
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G

Power Electronics

Product designation		Soft starter
Operating current		
• at 40 °C rated value	A	3
• at 50 °C rated value	A	2.6
• at 60 °C rated value	A	2.2
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	550
• at 400 V		
— at standard circuit at 40 °C rated value	W	1 100
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	0.5
Operating frequency rated value	Hz	50 ... 60
Relative negative tolerance of the operating frequency	%	-10
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit rated value	V	200 ... 400
Relative negative tolerance of the operating voltage at standard circuit	%	-10
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [%]	%	9
Continuous operating current [% of I_e] at 40 °C	%	100
Power loss [W] at operating current at 40 °C during operation typical	W	6.5

Control circuit/ Control

Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1 rated value	Hz	50
Control supply voltage frequency 2 rated value	Hz	60
Control supply voltage 1 at AC at 50 Hz	V	24 ... 230
Control supply voltage 1 at AC at 60 Hz	V	24 ... 230
Relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-10
Relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-10
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
Control supply voltage 1 at DC	V	24 ... 230
Relative negative tolerance of the control supply voltage at DC	%	-10

Relative positive tolerance of the control supply voltage at DC	%	10
---	---	----






Mechanical data		
Width	mm	22.5
Height	mm	102
Depth	mm	123
Mounting type		screw and snap-on mounting
Mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
Wire length maximum	m	100
Number of poles for main current circuit		3

Connections/ Terminals		
Type of electrical connection		
<ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit 		screw-type terminals screw-type terminals
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		0
Number of CO contacts for auxiliary contacts		0
Type of connectable conductor cross-sections for main contacts		
<ul style="list-style-type: none"> solid finely stranded with core end processing 		0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²) 0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²)
Type of connectable conductor cross-sections for auxiliary contacts		
<ul style="list-style-type: none"> solid finely stranded with core end processing 		0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²) 0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors		
<ul style="list-style-type: none"> for main contacts for auxiliary contacts 		2x (20 ... 14) 2x (20 ... 14)

Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category		
<ul style="list-style-type: none"> during transport acc. to IEC 60721 during storage acc. to IEC 60721 during operation acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient temperature		
<ul style="list-style-type: none"> during operation 	°C	-25 ... +60

• during storage	°C	-40 ... +80
Derating temperature	°C	40
Protection class IP		IP20

Certificates/ approvals

General Product Approval		EMC	Declaration of Conformity	
				
CSA	UL		RCM	EG-Konf.

[Miscellaneous](#)

Test Certificates	other	
Type Test Certificates/Test Report	Special Test Certificate	Confirmation

UL/CSA ratings

Yielded mechanical performance [hp] for three-phase AC motor		
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	0.5
Contact rating of auxiliary contacts according to UL		B300 / R300

Further information

Simulation Tool for Soft Starters (STS)

<https://support.industry.siemens.com/cs/ww/en/view/101494917>

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3003-1CB54>

Cax online generator

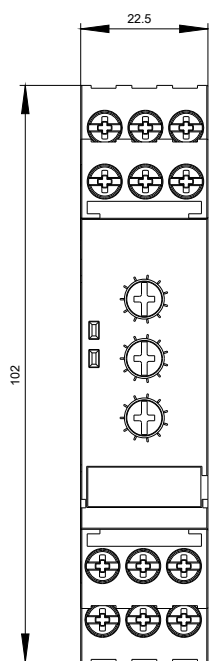
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3003-1CB54>

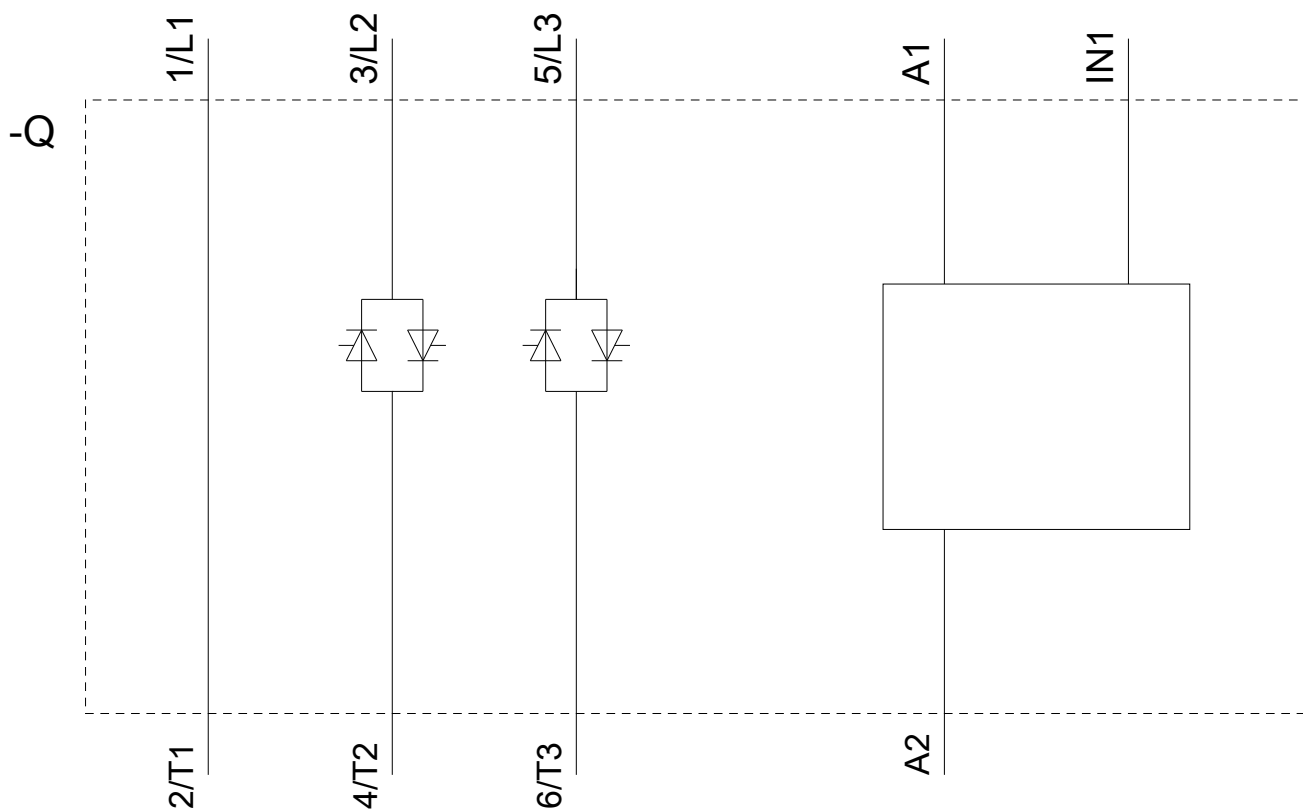
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RW3003-1CB54>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3003-1CB54&lang=en





last modified:

03/10/2020