



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 according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G

Power Electronics

product designation		Soft starter
operational current		
• at 40 °C rated value	A	3
• at 50 °C rated value	A	2.6
• at 60 °C rated value	A	2.2
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	0.55
• at 400 V		
— at standard circuit at 40 °C rated value	kW	1.1
yielded mechanical performance [hp] for 3-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 operational current at 40 °C during	W	6.5

operation typical		
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
fastening method		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		screw-type terminals
<ul style="list-style-type: none"> for main current circuit for auxiliary and control circuit 		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 mm ² , 2x (0.5 ... 2.5 mm ²) 0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²)
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 mm ² , 2x (0.5 ... 2.5 mm ²) 0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²)
type of connectable conductor cross-sections at AWG cables		
<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 according to IEC 60721 during storage according to IEC 60721 during operation according 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 during storage 	°C	-25 ... +60 -40 ... +80
derating temperature	°C	40
protection class IP on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
Certificates/ approvals		



[Confirmation](#)



Test Certificates	other
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Confirmation](#)

UL/CSA ratings

yielded mechanical performance [hp] for 3-phase AC motor

- at 220/230 V

— at standard circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

hp

0.5

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,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

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

Cax online generator

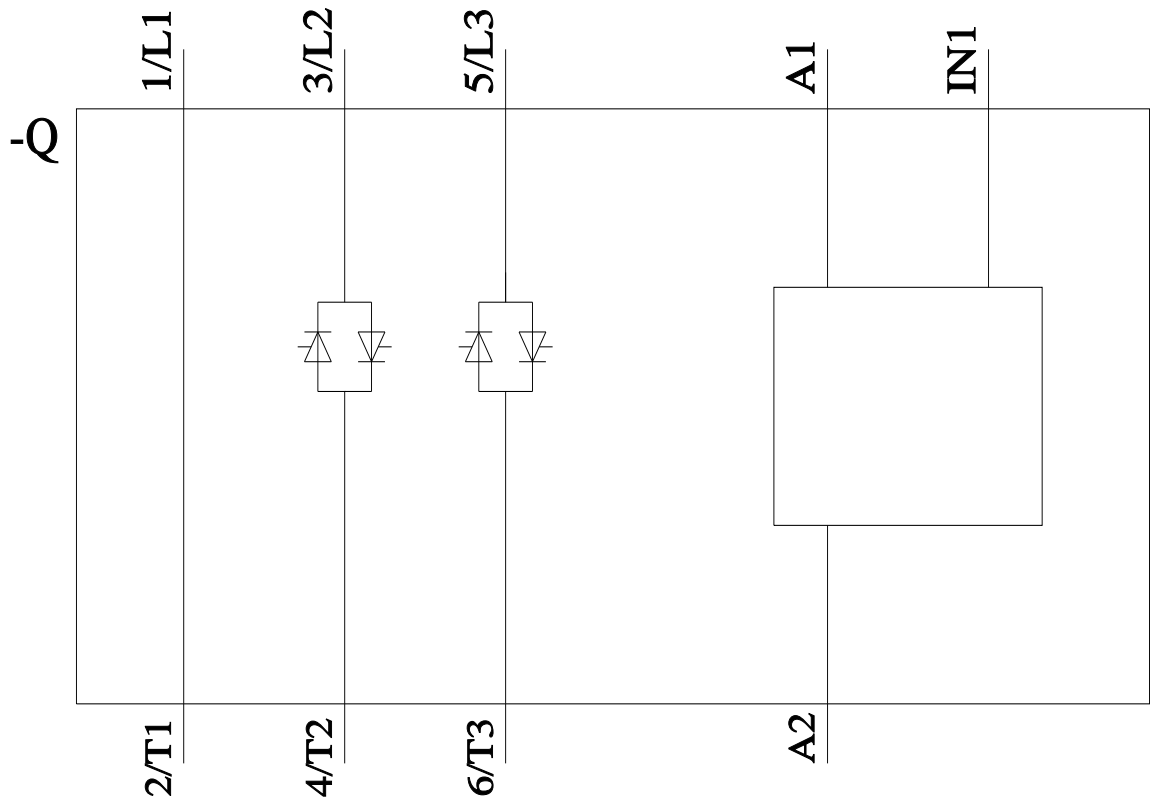
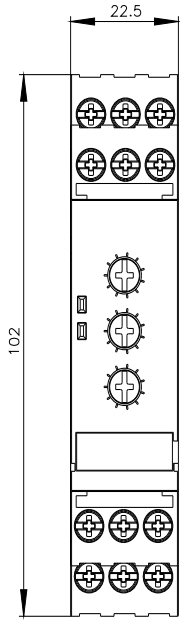
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RW3003-1CB54>

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?mfb=3RW3003-1CB54&lang=en



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