



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 designation	Soft starter
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	600 V
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	
operational current	
• at 40 °C rated value	3 A
• at 50 °C rated value	2.6 A
• at 60 °C rated value	2.2 A
yielded mechanical performance for 3-phase motors	
• at 230 V	
— at standard circuit at 40 °C rated value	0.55 kW
• at 400 V	
— at standard circuit at 40 °C rated value	1.1 kW
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	0.5 hp
operating frequency rated value	50 ... 60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
operating voltage at standard circuit rated value	200 ... 400 V
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 <sub>e</sub> ] at 40 °C	100 %
power loss [W] at operational current at 40 °C during operation typical	6.5 W
<b>Control circuit/ Control</b>	
type of voltage of the control supply voltage	AC/DC
control supply voltage frequency 1 rated value	50 Hz
control supply voltage frequency 2 rated value	60 Hz
control supply voltage 1 at AC at 50 Hz	24 ... 230 V
control supply voltage 1 at AC at 60 Hz	24 ... 230 V
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	24 ... 230 V
relative negative tolerance of the control supply voltage at DC	-10 %
relative positive tolerance of the control supply voltage at DC	10 %
<b>Mechanical data</b>	
width	22.5 mm
height	102 mm
depth	123 mm
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	100 m
number of poles for main current circuit	3
<b>Connections/ Terminals</b>	
type of electrical connection	
• for main current circuit	screw-type terminals
• 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	
• solid	0.5 ... 4 mm <sup>2</sup> , 2x (0.5 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing	0.5 ... 2.5 mm <sup>2</sup> , 2x (0.5 ... 1.5 mm <sup>2</sup> )
type of connectable conductor cross-sections for auxiliary contacts	
• solid	0.5 ... 4 mm <sup>2</sup> , 2x (0.5 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing	0.5 ... 2.5 mm <sup>2</sup> , 2x (0.5 ... 1.5 mm <sup>2</sup> )
type of connectable conductor cross-sections for AWG cables	
• for main contacts	2x (20 ... 14)
• for auxiliary contacts	2x (20 ... 14)
<b>Ambient conditions</b>	
installation altitude at height above sea level	5 000 m
environmental category	
• during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
• during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
• during operation according to IEC 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature	
• during operation	-25 ... +60 °C

• during storage	-40 ... +80 °C
derating temperature	40 °C
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

### UL/CSA ratings

yielded mechanical performance [hp] for 3-phase AC motor	
• at 220/230 V	
— at standard circuit at 50 °C rated value	0.5 hp
contact rating of auxiliary contacts according to UL	B300 / R300

### Approvals Certificates

Environment	General Product Approval
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[Environmental Conformations](#)



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

[Special Test Certificate](#)

[Confirmation](#)

[Confirmation](#)

### other



### Further information

**Simulation Tool for Soft Starters (STS)**

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

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**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?mlfb=3RW3003-1CB54>

**Cax online generator**

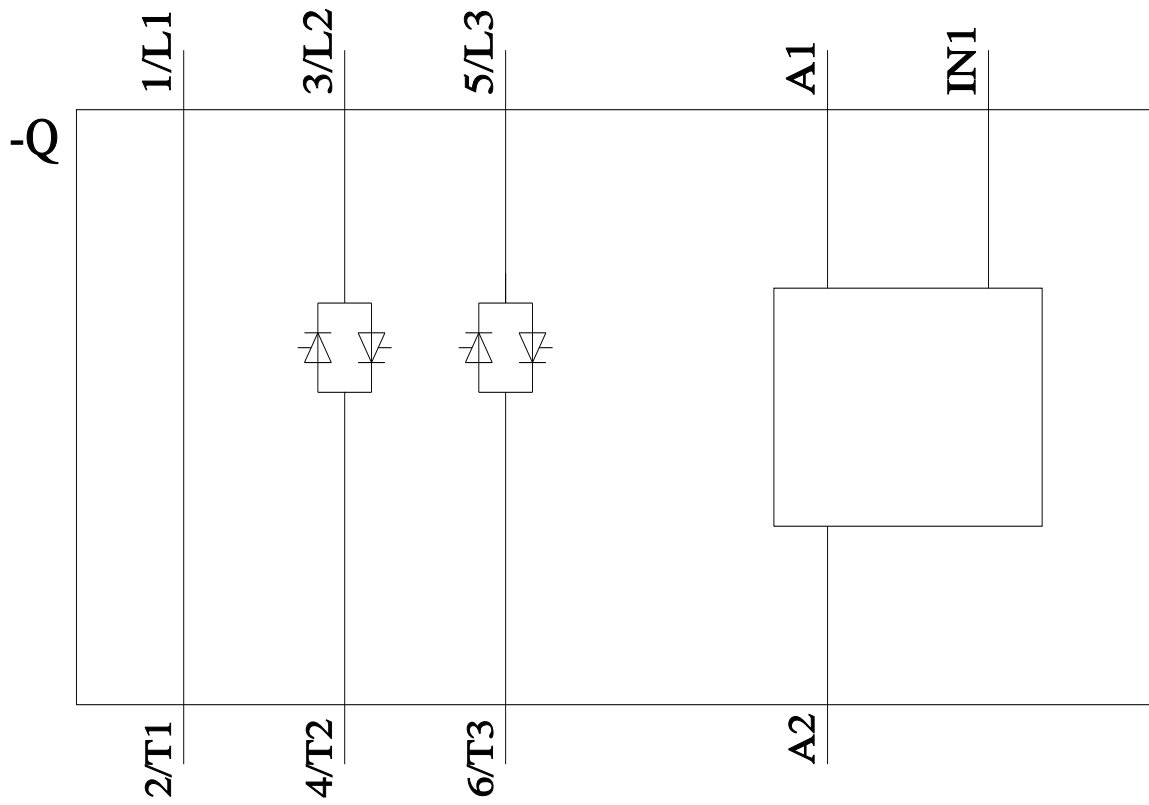
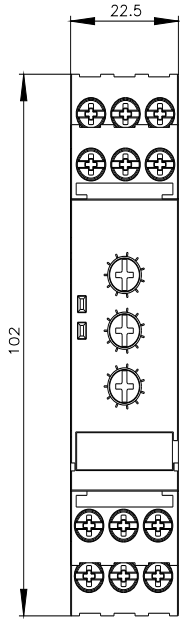
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3003-1CB54>

**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, ...)**

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW3003-1CB54&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3003-1CB54&lang=en)



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