



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 °C 200-480 V AC,  
110-230 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product designation		Soft starter
product feature		
• integrated bypass contact system		Yes
• 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
blocking voltage of the thyristor maximum	V	1 600
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	A	38
• at 50 °C rated value	A	34
• at 60 °C rated value	A	31
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	11
• at 400 V		
— at standard circuit at 40 °C rated value	kW	18.5
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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 ... 480
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	10

continuous operating current [% of $I_e$ ] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	19
<b>Control circuit/ Control</b>		
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
relative negative tolerance of the control supply voltage frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC at 50 Hz	V	110 ... 230
control supply voltage 1 at AC at 60 Hz	V	110 ... 230
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15
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	%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
control supply voltage 1 at DC	V	110 ... 230
relative negative tolerance of the control supply voltage at DC	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
<b>Mechanical data</b>		
size of engine control device		S0
width	mm	45
height	mm	125
depth	mm	150
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
required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	15
• downwards	mm	40
wire length maximum	m	300
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		1
number of CO contacts for auxiliary contacts		0
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
• solid		2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )
• finely stranded with core end processing		2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		
• using the front clamping point		1x 8, 2x (16 ... 10)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> )
type of connectable conductor cross-sections for AWG cables		
• for auxiliary contacts		2x (20 ... 14)
• for auxiliary contacts finely stranded with core end processing		2x (20 ... 16)
<b>Ambient conditions</b>		

installation altitude at height above sea level	m	5 000
<b>environmental category</b>		
• 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
<b>ambient temperature</b>		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +80
<b>derating temperature</b>	°C	40
<b>protection class IP on the front according to IEC 60529</b>		IP20
<b>touch protection on the front according to IEC 60529</b>		finger-safe, for vertical contact from the front
<b>Environmental footprint</b>		
global warming potential [CO <sub>2</sub> eq] total	kg	137
global warming potential [CO <sub>2</sub> eq] during manufacturing	kg	11
global warming potential [CO <sub>2</sub> eq] during sales	kg	0.151
global warming potential [CO <sub>2</sub> eq] during operation	kg	128
global warming potential [CO <sub>2</sub> eq] after end of life	kg	-2.27
<b>UL/CSA ratings</b>		
<b>yielded mechanical performance [hp] for 3-phase AC motor</b>		
• at 220/230 V	hp	10
— at standard circuit at 50 °C rated value	hp	25
• at 460/480 V	hp	
— at standard circuit at 50 °C rated value	hp	
<b>contact rating of auxiliary contacts according to UL</b>		B300 / R300

#### Approvals Certificates

##### General Product Approval



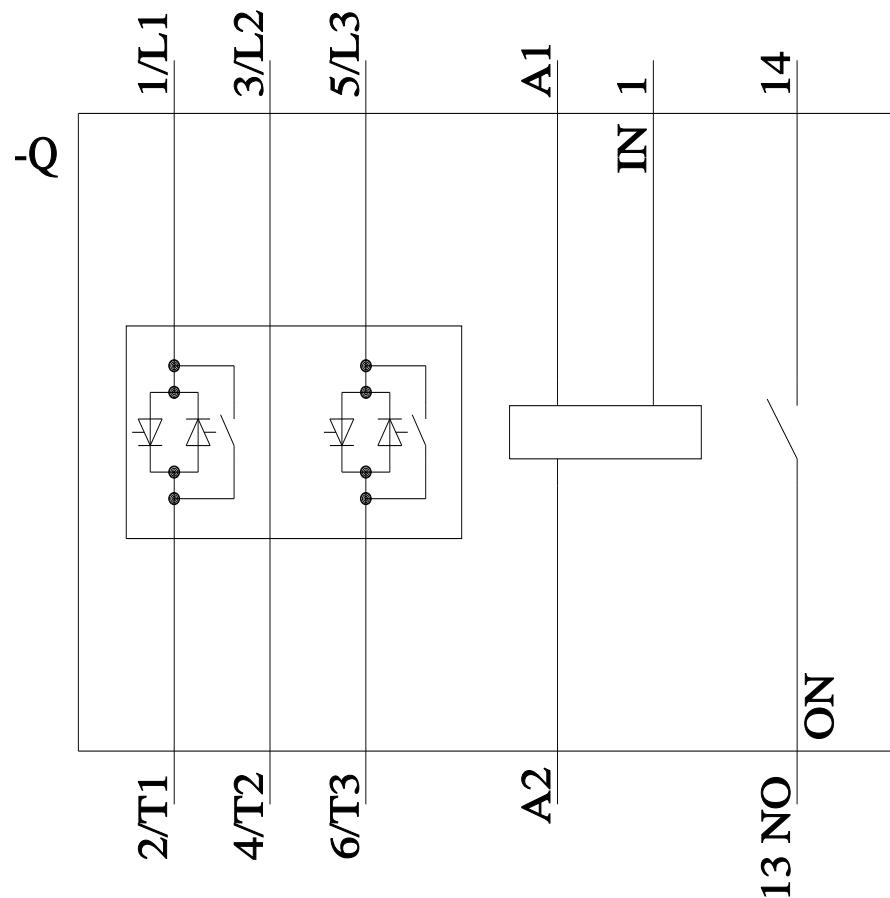
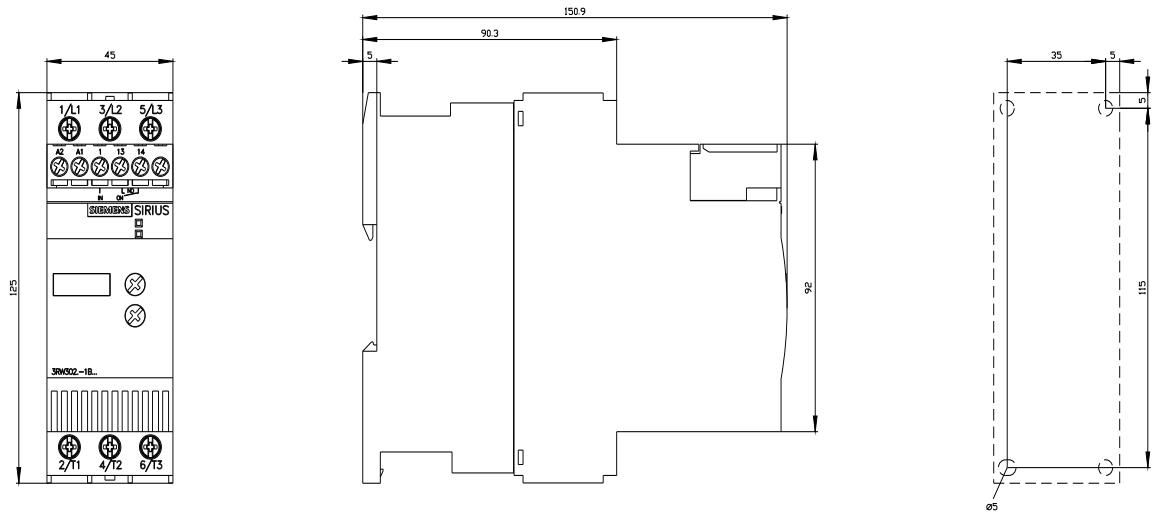
[Confirmation](#)



EMV	Test Certificates	other	Environment
 RCM	<a href="#">KC</a> <a href="#">Type Test Certificates/Test Report</a>	<a href="#">Confirmation</a>	<a href="#">Miscellaneous</a> 

Environment
 <a href="#">Environmental Confirmations</a>

Further information
<b>Simulation Tool for Soft Starters (STS)</b> <a href="https://support.industry.siemens.com/cs/ww/en/view/101494917">https://support.industry.siemens.com/cs/ww/en/view/101494917</a>
<b>Information on the packaging</b> <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b> <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>
<b>Industry Mall (Online ordering system)</b> <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3028-1BB14">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3028-1BB14</a>
<b>Cax online generator</b> <a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RW3028-1BB14">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RW3028-1BB14</a>
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="https://support.industry.siemens.com/cs/ww/en/pb/3RW3028-1BB14">https://support.industry.siemens.com/cs/ww/en/pb/3RW3028-1BB14</a>
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b> <a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3028-1BB14&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3028-1BB14&amp;lang=en</a>



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