



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC spring-type 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	600 V
degree of pollution	3, acc. to IEC 60947-4-2
blocking voltage of the thyristor maximum	1 600 V
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	38 A
• at 50 °C rated value	34 A
• at 60 °C rated value	31 A
yielded mechanical performance for 3-phase motors	
• at 230 V	
— at standard circuit at 40 °C rated value	11 kW
• at 400 V	
— at standard circuit at 40 °C rated value	18.5 kW
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	10 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 ... 480 V
relative negative tolerance of the operating voltage at	-15 %

standard circuit	
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	19 W
Control circuit/ Control	
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
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 rated value	24 V
• at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage 1 at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
display version for fault signal	red
Mechanical data	
size of engine control device	S0
width	45 mm
height	150 mm
depth	150 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
required spacing with side-by-side mounting	
• upwards	60 mm
• at the side	15 mm
• downwards	40 mm
wire length maximum	300 m
number of poles for main current circuit	3
Connections/ Terminals	
type of electrical connection	
• for main current circuit	spring-loaded terminals
• for auxiliary and control circuit	spring-loaded 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 ²), 2x (2.5 ... 6 mm ²)
• finely stranded with core end processing	2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²)
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 main contacts	
• solid	1 ... 10 mm ²

<ul style="list-style-type: none"> finely stranded with core end processing 	1 ... 6 mm ²
type of connectable conductor cross-sections for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded with core end processing 	2x (0.25 ... 2.5 mm ²) 2x (0.25 ... 1.5 mm ²)
type of connectable conductor cross-sections for AWG cables <ul style="list-style-type: none"> for main contacts for auxiliary contacts 	16 ... 8 2x (24 ... 14)

Ambient conditions	
installation altitude at height above sea level	5 000 m
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 	-25 ... +60 °C -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 <ul style="list-style-type: none"> at 220/230 V <ul style="list-style-type: none"> at standard circuit at 50 °C rated value at 460/480 V <ul style="list-style-type: none"> at standard circuit at 50 °C rated value 	10 hp 25 hp
contact rating of auxiliary contacts according to UL	B300 / R300

Approvals Certificates	
Environmental Product Declaration	
<ul style="list-style-type: none"> global warming potential [CO2 eq] / during manufacturing global warming potential [CO2 eq] / during sales global warming potential [CO2 eq] / during operation global warming potential [CO2 eq] / after end of life global warming potential [CO2 eq] / total 	11 kg 0.151 kg 128 kg -2.27 kg 137 kg

Environment	General Product Approval
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[Environmental Confirmations](#)



Siemens EcoTech



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

[Confirmation](#)

other

[Confirmation](#)

[Miscellaneous](#)



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=3RW3028-2BB04>

Cax online generator

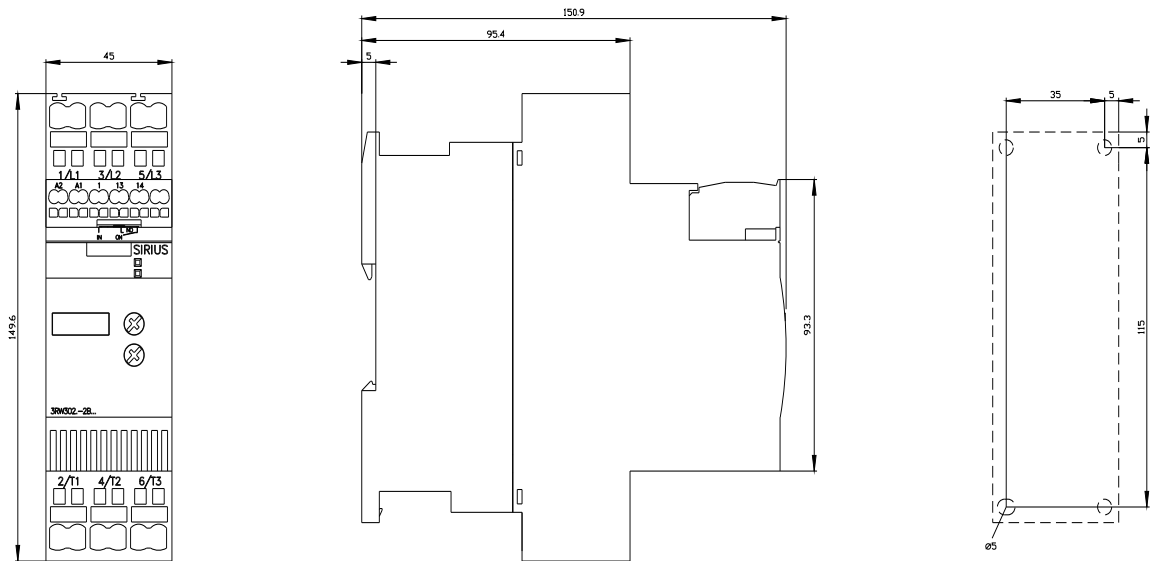
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3028-2BB04>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW3028-2BB04>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3028-2BB04&lang=en





last modified:

2/12/2026 