



SIRIUS soft starter S12 205 A, 150 hp/460 V, 50 °C 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5073-2AB14<<

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	Yes
• motor overload protection	Yes
• evaluation of thermistor motor protection	No
• external reset	Yes
• adjustable current limitation	Yes
• 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	230 A
• at 50 °C rated value	205 A
• at 60 °C rated value	180 A
yielded mechanical performance for 3-phase motors	
• at 230 V	
— at standard circuit at 40 °C rated value	75 kW
• at 400 V	
— at standard circuit at 40 °C rated value	132 kW
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	60 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 ... 460 V
relative negative tolerance of the operating voltage at standard circuit	-15 %

relative positive tolerance of the operating voltage at standard circuit	10 %
minimum load [%]	20 %
adjustable motor current for motor overload protection minimum rated value	80 A
continuous operating current [% of I _e] at 40 °C	115 %
power loss [W] at operational current at 40 °C during operation typical	90 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
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	115 V
• at 60 Hz rated value	115 V
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 %
display version for fault signal	red
Mechanical data	
size of engine control device	S12
width	160 mm
height	230 mm
depth	278 mm
fastening method	screw fixing
mounting position	With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
required spacing with side-by-side mounting	
• upwards	100 mm
• at the side	5 mm
• downwards	75 mm
wire length maximum	300 m
number of poles for main current circuit	3
Connections/ Terminals	
type of electrical connection	
• for main current circuit	busbar connection
• for auxiliary and control circuit	spring-loaded terminals
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	2
number of CO contacts for auxiliary contacts	1
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	
• finely stranded with core end processing	70 ... 240 mm ²
• finely stranded without core end processing	70 ... 240 mm ²
• stranded	95 ... 300 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	
• finely stranded with core end processing	120 ... 185 mm ²
• finely stranded without core end processing	120 ... 185 mm ²
• stranded	120 ... 240 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points	

<ul style="list-style-type: none"> finely stranded with core end processing finely stranded without core end processing stranded 	min. 2x 50 mm ² , max. 2x 185 mm ² min. 2x 50 mm ² , max. 2x 185 mm ² max. 2x 70 mm ² , max. 2x 240 mm ²
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal <ul style="list-style-type: none"> using the back clamping point using the front clamping point using both clamping points 	250 ... 500 kcmil 3/0 ... 600 kcmil min. 2x 2/0, max. 2x 500 kcmil
type of connectable conductor cross-sections for DIN cable lug for main contacts <ul style="list-style-type: none"> finely stranded stranded 	50 ... 240 mm ² 70 ... 240 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 ... 1.5 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 	2/0 ... 500 kcmil 2x (24 ... 16)

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	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover

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 	75 hp 150 hp
contact rating of auxiliary contacts according to UL	B300 / R300

Approvals Certificates

Environment	General Product Approval
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[Environmental Conformations](#)



EMV	For use in hazardous locations	Test Certificates	Maritime application
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other

Confirmation

Confirmation



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=3RW4073-2BB34>

Cax online generator

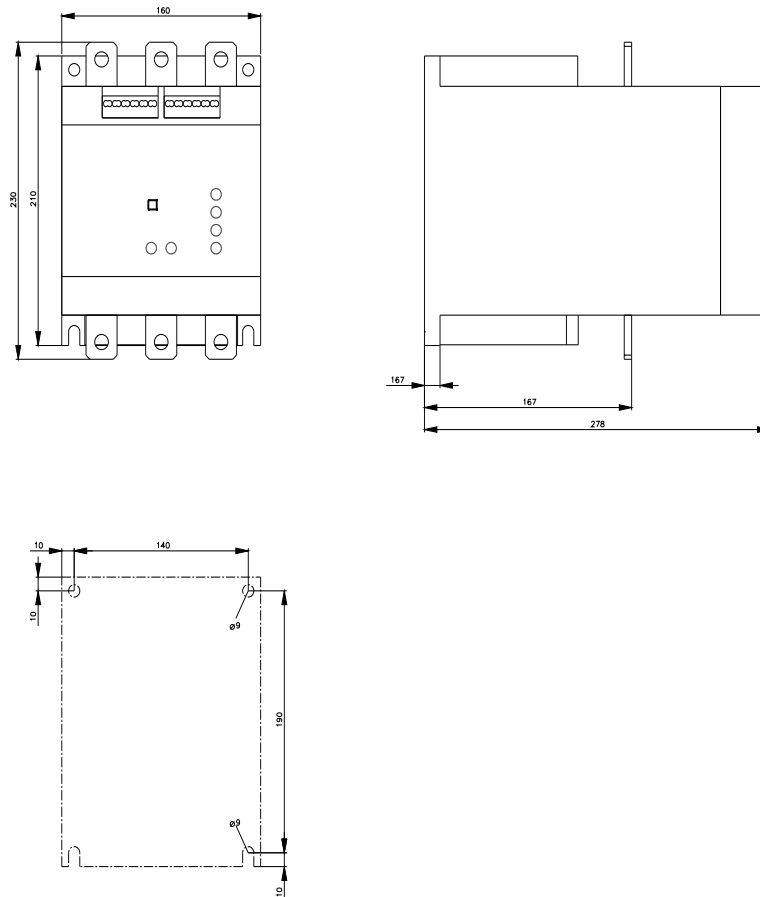
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-2BB34>

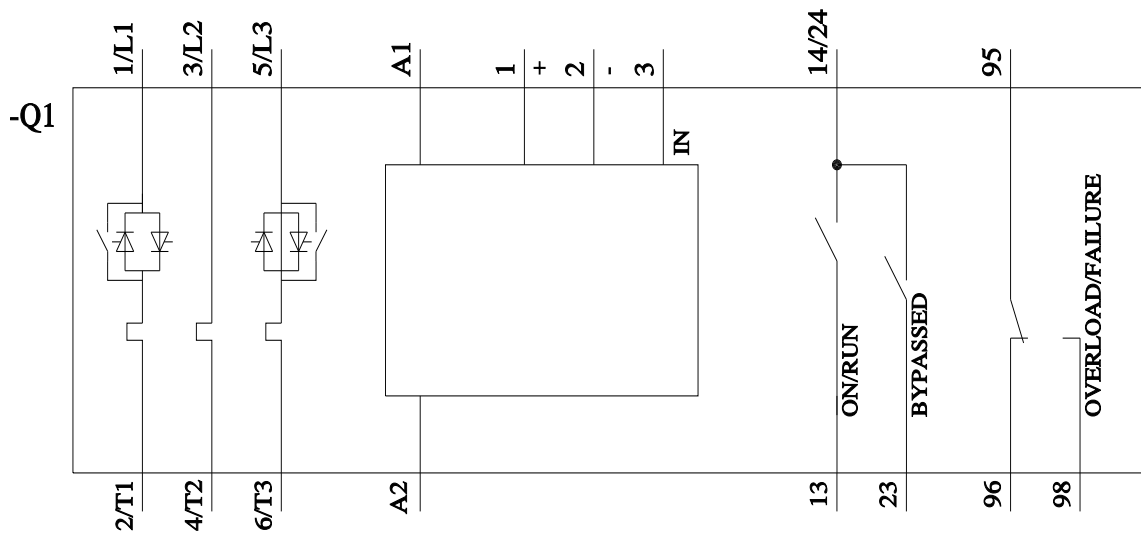
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-2BB34>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4073-2BB34&lang=en





last modified:

4/1/2025 