



SIRIUS soft starter Values at 575 V, 50 °C standard: 315 A, 300 hp Inside-delta: 546 A, 600 hp 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5546-6HA16<<

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		Yes
• external reset		Yes
• adjustable current limitation		Yes
• inside-delta circuit		Yes
product component motor brake output		Yes
insulation voltage rated value	V	690
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	A	356
• at 50 °C rated value	A	315
• at 60 °C rated value	A	280
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	A	617
• at 50 °C rated value	A	546
• at 60 °C rated value	A	485
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	kW	200
— at inside-delta circuit at 40 °C rated value	kW	355
• at 500 V		
— at standard circuit at 40 °C rated value	kW	250
— at inside-delta circuit at 40 °C rated value	kW	450
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	400 ... 600
relative negative tolerance of the operating voltage at	%	-15

standard circuit		
relative positive tolerance of the operating voltage at standard circuit	%	10
operating voltage at inside-delta circuit rated value	V	400 ... 600
relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
relative positive tolerance of the operating voltage at inside-delta circuit	%	10
minimum load [%]	%	8
adjustable motor current for motor overload protection minimum rated value	A	71
continuous operating current [% of I_e] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	174
Control circuit/ Control		
type of voltage of the control supply voltage		AC
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 rated value	V	115
• at 60 Hz rated value	V	115
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		Display
Mechanical data		
width	mm	210
height	mm	230
depth	mm	298
fastening method		screw fixing
mounting position		with vertical mounting surface +/- 90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
• downwards	mm	75
wire length maximum	m	500
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		screw-type terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		3
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		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		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		50 ... 240 mm ² 70 ... 240 mm ²
type of connectable conductor cross-sections for auxiliary contacts		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²)
type of connectable conductor cross-sections for AWG cables		2/0 ... 500 kcmil 2x (20 ... 14) 2x (20 ... 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
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	°C	60
• during storage	°C	-25 ... +80
derating temperature		
	°C	40
protection class IP on the front according to IEC 60529		
touch protection on the front according to IEC 60529		
		finger-safe, for vertical contact from the front with box terminal/cover
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	250
— at inside-delta circuit at 50 °C rated value	hp	450
• at 575/600 V		
— at standard circuit at 50 °C rated value	hp	300
— at inside-delta circuit at 50 °C rated value	hp	600
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		
General Product Approval		



[Confirmation](#)



EMV	Test Certificates	Marine / Shipping
 KC	Special Test Certificate Type Test Certificates/Test Report	 ABS


[Confirmation](#)
[Environmental Confirmations](#)

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- 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=3RW4446-6BC35>

Cax online generator

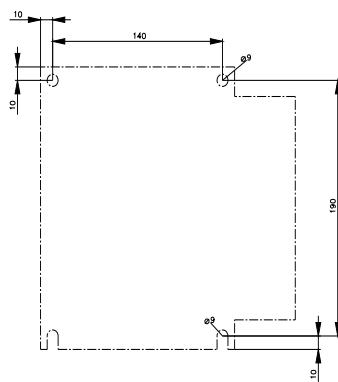
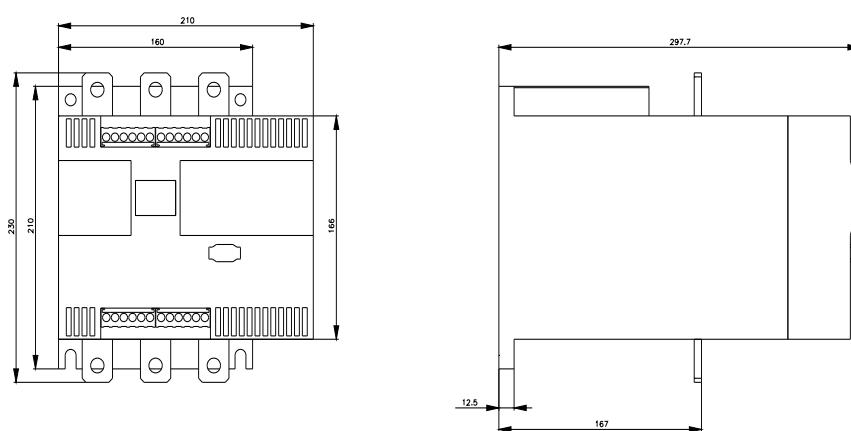
<http://support.automation.siemens.com/WW/CAxorder/default.aspx?lang=en&mlfb=3RW4446-6BC35>

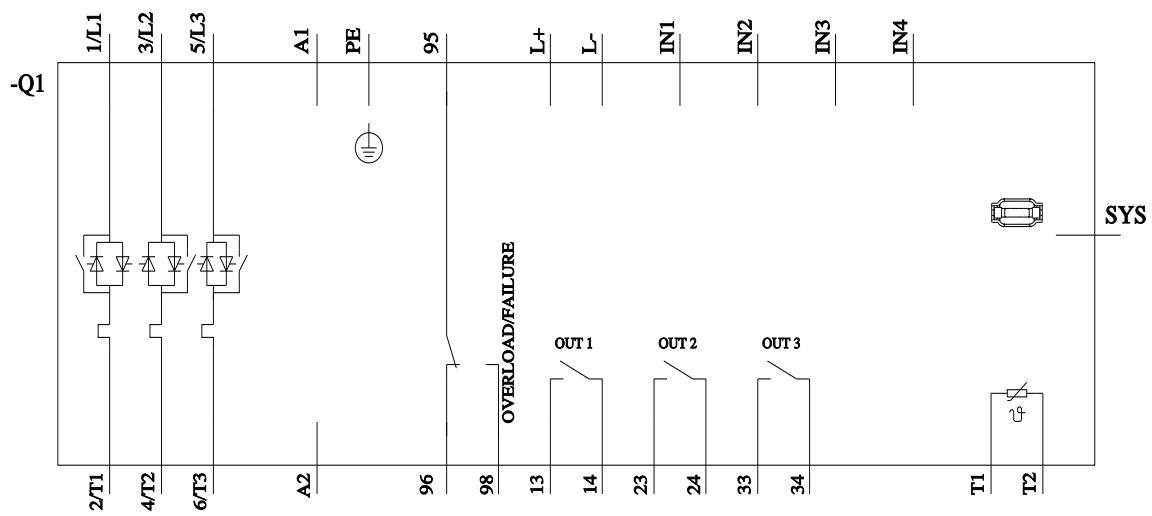
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/pb/3RW4446-6BC35>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4446-6BC35&lang=en





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