



SIRIUS soft starter Values at 460 V, 50 °C standard: 117 A, 75 hp Inside-delta: 203 A, 150 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5535-6HA14<<

General technical data		
product brand name		SIRIUS
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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	A	134
• at 50 °C rated value	A	117
• at 60 °C rated value	A	100
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	A	232
• at 50 °C rated value	A	203
• at 60 °C rated value	A	173
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	37 000
— at inside-delta circuit at 40 °C rated value	W	75 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	75 000
— at inside-delta circuit at 40 °C rated value	W	132 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30

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 ... 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
operating voltage at inside-delta circuit rated value	V	200 ... 460
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	26
continuous operating current [% of I _e] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	76
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	170
height	mm	200
depth	mm	270
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 - finely stranded without core end processing - stranded		16 ... 70 mm ² 16 ... 70 mm ² 16 ... 70 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 - finely stranded without core end processing - stranded		16 ... 70 mm ² 16 ... 70 mm ² 16 ... 70 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points - finely stranded with core end processing - finely stranded without core end processing - stranded		max. 1x 50 mm ² , 1x 70 mm ² max. 1x 50 mm ² , 1x 70 mm ² max. 2x 70 mm ²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal - using the back clamping point - using the front clamping point - using both clamping points		6 ... 2/0 6 ... 2/0 max. 2x 1/0
type of connectable conductor cross-sections for DIN cable lug for main contacts - finely stranded - stranded		16 ... 95 mm ² 25 ... 120 mm ²
type of connectable conductor cross-sections for auxiliary contacts - solid - finely stranded with core end processing		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²)
type of connectable conductor cross-sections at AWG cables - for main contacts - for auxiliary contacts - for auxiliary contacts finely stranded with core end processing		4 ... 250 kcmil 2x (20 ... 14) 2x (20 ... 16)

Ambient conditions

installation altitude at height above sea level	m	5 000
environmental category - during transport acc. to IEC 60721 - during storage acc. to IEC 60721 - during operation acc. 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 - during operation - during storage	°C °C	60 -25 ... +80
derating temperature	°C	40
protection class IP on the front acc. to IEC 60529		IP00; IP20 with box terminal/cover
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover

Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
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Declaration of	Test Certificates	Marine / Shipping
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Conformity		
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[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other
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[Confirmation](#)

UL/CSA ratings

yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V — at inside-delta circuit at 50 °C rated value • at 220/230 V — at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value • at 460/480 V — at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value	hp	60
	hp	40
	hp	75
	hp	75
	hp	150
contact rating of auxiliary contacts according to UL		B300 / R300

Further information

Simulation Tool for Soft Starters (STS)

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

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=3RW4435-6BC34>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-6BC34>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-6BC34>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4435-6BC34&lang=en



