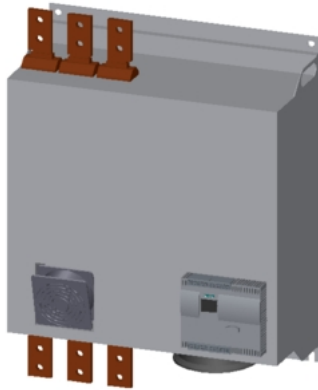




SIRIUS soft starter Values at 500 V, 40 °C standard: 1214 A, 900 kW Inside-delta: 2103 A, 1500 kW 400-600 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5558-2HA16<<

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	690 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	1 214 A
• at 50 °C rated value	1 076 A
• at 60 °C rated value	970 A
operational current for 3-phase motors at inside-delta circuit	
• at 40 °C rated value	2 103 A
• at 50 °C rated value	1 864 A
• at 60 °C rated value	1 680 A
yielded mechanical performance for 3-phase motors	
• at 400 V	
— at standard circuit at 40 °C rated value	710 kW
— at inside-delta circuit at 40 °C rated value	1 200 kW
• at 500 V	
— at standard circuit at 40 °C rated value	900 kW
— at inside-delta circuit at 40 °C rated value	1 500 kW
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	400 ... 600 V

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	400 ... 600 V
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	242 A
continuous operating current [% of I _e] at 40 °C	115 %
power loss [W] at operational current at 40 °C during operation typical	630 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 - at 60 Hz rated value	230 V 230 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	Display
Mechanical data	
width	575 mm
height	780 mm
depth	292 mm
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 - at the side - downwards	100 mm 5 mm 75 mm
wire length maximum	500 m
number of poles for main current circuit	3
Connections/ Terminals	
type of electrical connection - for main current circuit - for auxiliary and control circuit	busbar connection spring-loaded 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 DIN cable lug for main contacts - finely stranded - stranded	50 ... 240 mm² 70 ... 240 mm²
type of connectable conductor cross-sections for auxiliary contacts - solid - finely stranded with core end processing	2x (0.25 ... 1.5 mm²) 2x (0.25 ... 1.5 mm²)

type of connectable conductor cross-sections for AWG cables	
• 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	
• 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	
• during operation • during storage	60 °C -25 ... +80 °C
derating temperature	40 °C
protection class IP on the front according to IEC 60529	IP00

UL/CSA ratings

yielded mechanical performance [hp] for 3-phase AC motor	
• at 460/480 V — at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value • at 575/600 V — at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value	950 hp 1 700 hp 1 200 hp 2 100 hp
contact rating of auxiliary contacts according to UL	B300 / R300

Approvals Certificates

Environment	General Product Approval
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[Environmental Confirmations](#)



EMV	Test Certificates	Maritime application
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[Special Test Certificate](#)



Maritime application	other
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[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=3RW4466-2BC45>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4466-2BC45>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-2BC45>

