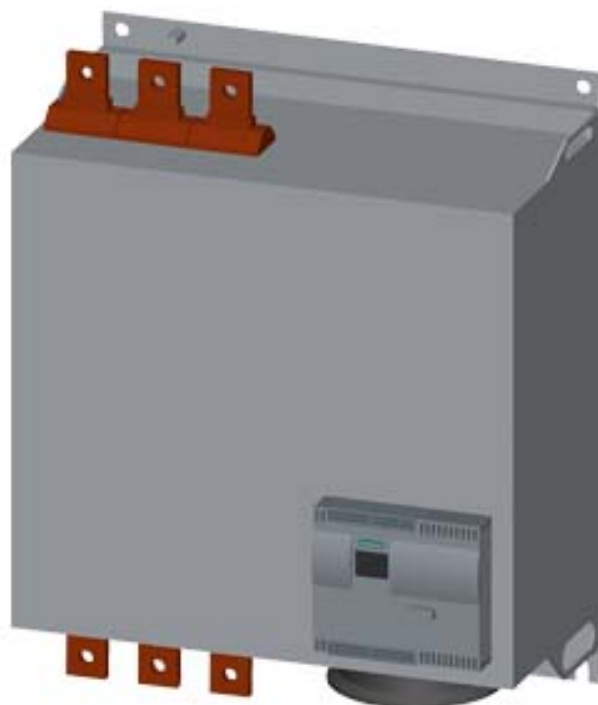




SIRIUS SOFT STARTER, VALUES AT 690V, 40DEG.,
STANDARD: 551A, 560KW, INSIDE-DELTA CIRCUIT
3: ONLY UP TO 600V, 400-690V AC, 230V AC,
SPRING TERMINALS

General technical data:

product brand name		SIRIUS
• Product equipment Integrated bypass contact system		Yes
• Product feature 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
Equipment marking acc. to DIN EN 61346-2		Q
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G

Power Electronics:

Product designation	soft starters for high feature applications
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Operating current		
• at 40 °C rated value	A	551
• at 50 °C rated value	A	494
• at 60 °C rated value	A	438
Operating current for three-phase motors at inside-delta circuit		
• at 40 °C rated value	A	954
• at 50 °C rated value	A	856
• at 60 °C rated value	A	759
Mechanical power output for three-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	W	315 000
— at inside-delta circuit at 40 °C rated value	W	560 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	355 000
— at inside-delta circuit at 40 °C rated value	W	630 000
• at 690 V at standard circuit at 40 °C rated value	W	560 000
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 ... 690
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	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 [% of IM]	%	8
Adjustable motor current for motor overload protection minimum rated value	A	110
Continuous operating current [% of I _e] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	159

Control electronics:

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	230
• at 60 Hz rated value	V	230
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	510
Height	mm	640
Depth	mm	290
Mounting type		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
Installation altitude at height above sea level	m	5 000
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 current circuit		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		50 ... 240 mm²
• stranded		70 ... 240 mm²
Type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 ... 1.5 mm²)
• finely stranded with core end processing		2x (0.25 ... 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors		
• for main contacts		2/0 ... 500 kcmil

- for auxiliary contacts

2x (24 ... 16)

Ambient conditions:

Ambient temperature	• during operation	°C	60
	• during storage	°C	-25 ... +80
Derating temperature		°C	40
Protection class IP			IP00

Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity
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CCC

CSA

UL

C-Tick

EG-Konf.

Test Certificates	Shipping Approval	other
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ABS



DNV



LRS

[Umweltbestätigung](#)

[Bestätigungen](#)

UL/CSA ratings:

Yielded mechanical performance [hp] for three-phase AC motor		
• at 460/480 V	— at standard circuit at 50 °C rated value	hp 400
	— at inside-delta circuit at 50 °C rated value	hp 750
• at 575/600 V	— at standard circuit at 50 °C rated value	hp 500
	— at inside-delta circuit at 50 °C rated value	hp 950
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,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

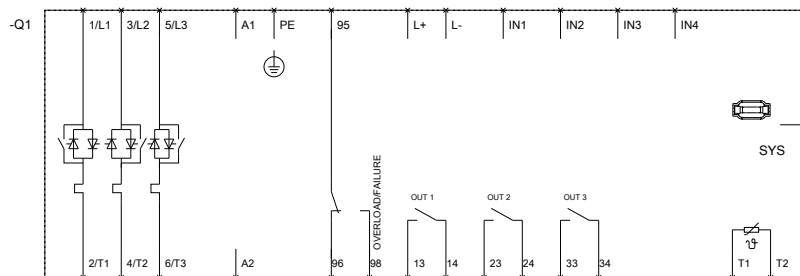
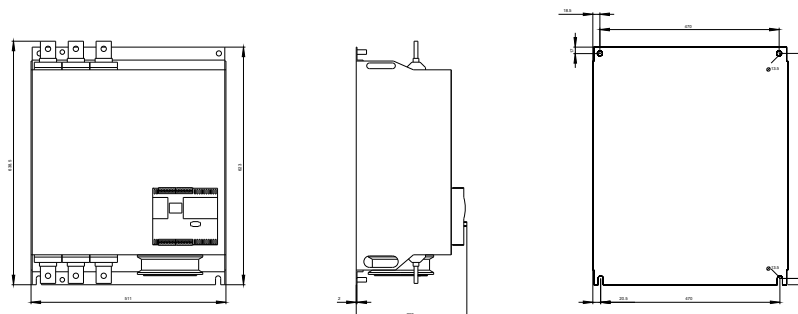
<http://www.siemens.com/industrymall>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4453-2BC46>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4453-2BC46>



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