



SIRIUS SOFT STARTER, S6, 134 A, 90 KW/500 V, 40 DEG., 400-600 V AC, 230 V AC, CAGE CLAMP 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		No
• External reset		Yes
• Adjustable current limitation		Yes
• Inside-delta circuit		No
Product component Motor brake output		No
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 standard applications

Operating current		
• at 40 °C rated value	A	134
• at 50 °C rated value	A	117
• at 60 °C rated value	A	100
Mechanical power output for three-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	W	75 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	90 000
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 ... 600
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [% of IM]	%	20
Adjustable motor current for motor overload protection minimum rated value	A	59
Continuous operating current [% of I_e] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	60

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		red

Mechanical data:

Size of engine control device		S6
Width	mm	120

Height	mm	198
Depth	mm	250
Mounting type		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	mm	100
• at the side	mm	5
• downwards	mm	75
Installation altitude at height above sea level	m	5 000
Wire length maximum	m	300
Number of poles for main current circuit		3

Connections/ Terminals:

Type of electrical connection		busbar connection spring-loaded terminals
• for main current circuit		
• for auxiliary and control current circuit		
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		16 ... 70 mm ²
• finely stranded without core end processing		16 ... 70 mm ²
• stranded		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		16 ... 70 mm ²
• finely stranded without core end processing		16 ... 70 mm ²
• stranded		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		max. 1x 50 mm ² , 1x 70 mm ²
• finely stranded without core end processing		max. 1x 50 mm ² , 1x 70 mm ²
• stranded		max. 2x 70 mm ²
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal		
• using the back clamping point		6 ... 2/0
• using the front clamping point		6 ... 2/0

• using both clamping points		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 (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²)
Type of connectable conductor cross-sections at AWG conductors • for main contacts • for auxiliary contacts		4 ... 250 kcmil 2x (24 ... 16)

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

Certificates/ approvals:		
General Product Approval	EMC	For use in hazardous locations



Declaration of Conformity	Test Certificates	Shipping Approval			other
EG-Konf.	spezielle Prüfbescheinigungen n	DNV	GL	LRS	Umweltbestätigung

other
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

75

- at 575/600 V

- at standard circuit at 50 °C rated value

hp

100

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

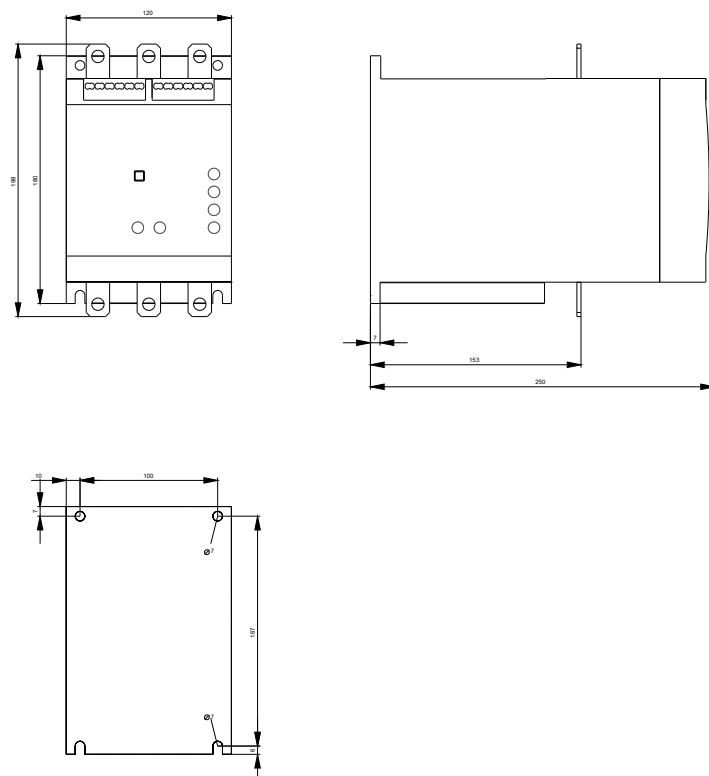
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4055-2BB45>

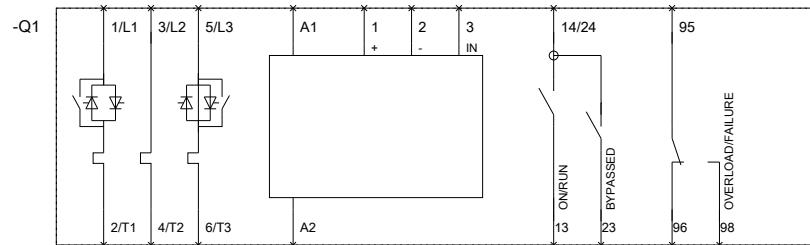
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4055-2BB45>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4055-2BB45&lang=en





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