

Reference: 3RW4056-6BB44

SIRIUS SOFT STARTER, S6, 162 A, 90 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, SCREW TERMINALS

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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 162
at 50 °C rated value	A 145
at 60 °C rated value	A 125

Mechanical power output for three-phase motors		
at 230 V		
— at standard circuit at 40 °C rated value	W	45 000
at 400 V		
— at standard circuit at 40 °C rated value	W	90 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	40
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
Minimum load [% of IM]	%	20
Adjustable motor current for motor overload protection minimum rated value	A	87
Continuous operating current [% of I <sub>e</sub> ] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	75
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
Witd>	mm	120
Height	mm	198

Depth	mm	250
Mounting type		screw fixing
Mounting position		With atd>
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		
for main current circuit		busbar connection
for auxiliary and control current circuit		screw-type terminals
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 <sup>2</sup>
finely stranded without core end processing		16 ... 70 mm <sup>2</sup>
stranded		16 ... 70 mm <sup>2</sup>
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 <sup>2</sup>
finely stranded without core end processing		16 ... 70 mm <sup>2</sup>
stranded		16 ... 70 mm <sup>2</sup>
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 <sup>2</sup> , 1x 70 mm <sup>2</sup>
finely stranded without core end processing		max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
stranded		max. 2x 70 mm <sup>2</sup>
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		16 ... 95 mm <sup>2</sup>

stranded	25 ... 120 mm <sup>2</sup>		
Type of connectable conductor cross-sections for auxiliary contacts			
solid	2x (0.5 ... 2.5 mm <sup>2</sup> )		
finely stranded with core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> )		
Type of connectable conductor cross-sections at AWG conductors			
for main contacts	4 ... 250 kcmil		
for auxiliary contacts	2x (20 ... 14)		
for auxiliary contacts finely stranded with core end processing	2x (20 ... 16)		
Ambient conditions:			
Ambient temperature			
during operation	°C	-25 ... +60	
during storage	°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
	spezielle Prüfbescheinigungen	Umweltbestätigung	
other			
Bestätigungen			
UL/CSA ratings:			
Yielded mechanical performance [hp] for three-phase AC motor			
at 220/230 V			
— at standard circuit at 50 °C rated value	hp	50	
at 460/480 V			
— at standard circuit at 50 °C rated value	hp	100	
Contact rating of auxiliary contacts according to UL	B300 / R300		