

Reference: 3RW4046-1BB14

SIRIUS SOFT STARTER, S3, 80A,
45KW/400V, 40 DEGR., AC 200-480V,
AC/DC 110-230V, 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 80
at 50 °C rated value	A 73
at 60 °C rated value	A 66

Mechanical power output for three-phase motors		
at 230 V		
— at standard circuit at 40 °C rated value	W	22 000
at 400 V		
— at standard circuit at 40 °C rated value	W	45 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
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 ... 480
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	43
Continuous operating current [% of I _e] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	12
Control electronics:		
Type of voltage of the control supply voltage		AC/DC
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	V	110 ... 230
Control supply voltage 1 at AC at 60 Hz	V	110 ... 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
Control supply voltage 1 at DC	V	110 ... 230
Relative negative tolerance of the control supply voltage at DC	%	-15
Relative positive tolerance of the control supply voltage at DC	%	10
Display version for fault signal		red
Mechanical data:		

Size of engine control device		S3
Width	mm	70
Height	mm	170
Depth	mm	190
Mounting type		screw and snap-on mounting
Mounting position		With atd>
Required spacing with side-by-side mounting		
upwards	mm	60
at the side	mm	30
downwards	mm	40
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		screw-type terminals
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		
solid		2x (2.5 ... 16 mm ²)
finely stranded with core end processing		2.5 ... 35 mm ²
stranded		4 ... 70 mm ²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
solid		2x (2.5 ... 16 mm ²)
finely stranded with core end processing		2.5 ... 50 mm ²
stranded		10 ... 70 mm ²
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
solid		2x (2.5 ... 16 mm ²)
finely stranded with core end processing		2x (2.5 ... 35 mm ²)
stranded		2x (10 ... 50 mm ²)
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal		
using the back clamping point		2x (10 ... 1/0)
using the front clamping point		2x (10 ... 1/0)
using both clamping points		10 ... 2/0

Type of connectable conductor cross-sections for DIN cable lug for main contacts		
finely stranded		2 x (10 ... 50 mm ²)
stranded		2x (10 ... 70 mm ²)
Type of connectable conductor cross-sections for auxiliary contacts		
solid		2x (0.5 ... 2.5 mm ²)
finely stranded with core end processing		2x (0.5 ... 1.5 mm ²)
Type of connectable conductor cross-sections at AWG conductors		
for main contacts		2x (7 ... 1/0)
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
	Typprüfbescheinigung/ Werkszeugnis	spezielle Prüfbescheinigungen
Shipping Approval	other	
	Umweltbestätigung	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	25
at 460/480 V		
— at standard circuit at 50 °C rated value	hp	50
Contact rating of auxiliary contacts according to UL		B300 / R300