



SIRIUS SOFT STARTER, S3, 80A,
45KW/400V, 40 DEGR., AC 200-480V,
AC/DC 24V, SCREW TERMINALS

General details:

product brand name		SIRIUS
Product equipment		
<ul style="list-style-type: none"> integrated bridging contact system 		Yes
<ul style="list-style-type: none"> thyristors 		Yes
Product function		
<ul style="list-style-type: none"> intrinsic device protection 		Yes
<ul style="list-style-type: none"> motor overload protection 		Yes
<ul style="list-style-type: none"> evaluation of thermal resistor motor protection 		No
<ul style="list-style-type: none"> reset external 		Yes
<ul style="list-style-type: none"> adjustable current limitation 		Yes
<ul style="list-style-type: none"> inside-delta circuit 		No
Product component / outlet for enine brake		No
Reference code		
<ul style="list-style-type: none"> according to DIN EN 61346-2 		Q
<ul style="list-style-type: none"> according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 		G

Power Electronics:

Product designation		soft starters for standard applications
Operating current		

<ul style="list-style-type: none"> • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value 	A	80
	A	73
	A	66
Emitted mechanical power / for three-phase servomotors		
<ul style="list-style-type: none"> • at 230 V / at standard switching / at 40 °C <ul style="list-style-type: none"> • rated value • at 400 V / at standard switching / at 40 °C <ul style="list-style-type: none"> • rated value 	W	22,000
	W	45,000
yielded mechanical performance [hp] / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated value	hp	20
Operating frequency		
<ul style="list-style-type: none"> • rated value 	Hz	50 ... 60
Relative negative tolerance / of the operating frequency	%	-10
Relative positive tolerance / of the operating frequency	%	10
Operating voltage / with standard circuit / rated value	V	200 ... 480
Relative negative tolerance / of the operating voltage / with standard circuit	%	-15
Relative positive tolerance / of the operating voltage / with standard circuit	%	10
Minimum load in % of I_M	%	20
Adjustable rated current of the motor / for motor overload protection / minimum	A	43
Continuous operating current in % of I_e / at 40°C	%	115
Active power loss / at operating current / at 40°C / during operating phase / typical	W	12

Control electronics:

Voltage type / of control feed 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		
<ul style="list-style-type: none"> • for AC / at 50 Hz • for AC / at 60 Hz 	V	24
	V	24
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-20
Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC	%	20
Control supply voltage / 1 / for DC / rated value	V	24

Relative negative tolerance / of the control supply voltage / for DC	%	-20
Relative positive tolerance / of the control supply voltage / for DC	%	20
Type of display / for fault signal		red

Mechanical design:

Size of the engine control device		S3
Width	mm	70
Height	mm	170
Depth	mm	190
Mounting type		screw and snap-on mounting
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
Distance, to be maintained, to the ranks assembly		
• upwards	mm	60
• sideways	mm	30
• downwards	mm	40
Installation altitude / at a height over sea level	m	5,000
Cable length / maximum	m	300
Number of poles / for main current circuit		3

Electrical connections:

Design of the 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 changeover contacts / for auxiliary contacts		1
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point		
• solid		2x (2.5 ... 16 mm ²)
• finely stranded / with conductor end processing		2.5 ... 35 mm ²
• stranded		4 ... 70 mm ²
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point		
• solid		2x (2.5 ... 16 mm ²)
• finely stranded / with conductor end processing		2.5 ... 50 mm ²
• stranded		10 ... 70 mm ²

Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points <ul style="list-style-type: none"> • solid • finely stranded / with conductor end processing • stranded 		2x (2.5 ... 16 mm ²) 2x (2.5 ... 35 mm ²) 2x (10 ... 50 mm ²)
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal <ul style="list-style-type: none"> • when using the back cl • when using the front c • when using both clampi 		2x (10 ... 1/0) 2x (10 ... 1/0) 10 ... 2/0
Type of the connectable conductor cross-section / for DIN cable lug / for main contacts <ul style="list-style-type: none"> • finely stranded • stranded 		2 x (10 ... 50 mm ²) 2x (10 ... 70 mm ²)
Type of the connectable conductor cross-section <ul style="list-style-type: none"> • for AWG conductors / for main contacts 		2x (7 ... 1/0)
Type of the connectable conductor cross-section <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded / with conductor end processing • for AWG conductors / for auxiliary contacts <ul style="list-style-type: none"> • finely stranded / with wire end proc 		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) 2x (20 ... 14) 2x (20 ... 16)

Ambient conditions:

Ambient temperature <ul style="list-style-type: none"> • during operating • 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
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CCC



CSA



UL



C-TICK



ATEX

Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



DNV



GL



LRS



PRS

Shipping Approval

other

[Declaration of Conformity](#)

[Environmental Confirmations](#)

UL/CSA ratings

yielded mechanical performance [hp] / for three-phase squirrel cage motors

- at 220/230 V / at standard circuit
 - at 50 °C / rated value
- at 460/480 V / at standard circuit
 - at 50 °C / rated value

hp 25

hp 50

Contact rating designation / for auxiliary contacts / according to UL

B300 / R300

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

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

CAX-Online-Generator

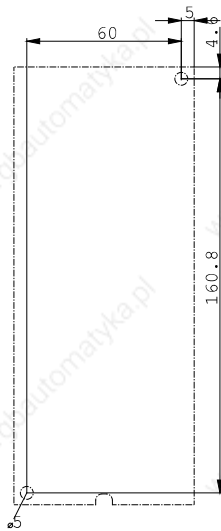
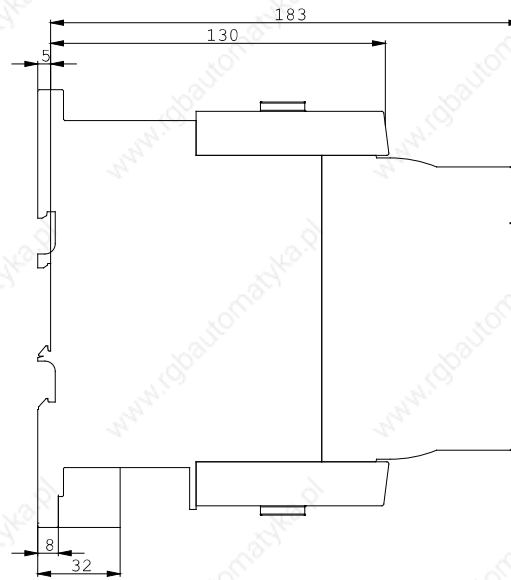
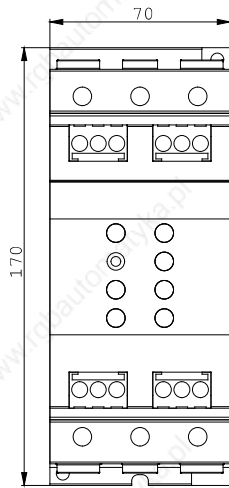
<http://www.siemens.com/cax>

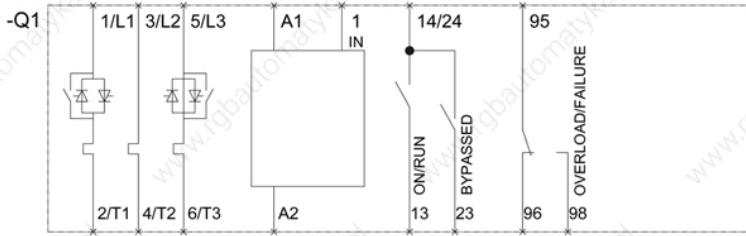
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/VW/view/en/3RW4046-1BB04/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4046-1BB04





last change:

Jul 7, 2014