

SIRIUS SOFT STARTER, S2, 72A,
45KW/500V, 40 DEGR., AC 400-600V,
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
Item designation		
<ul style="list-style-type: none"> according to DIN EN 61346-2 		Q
<ul style="list-style-type: none"> according to DIN 40719 extendable after 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 	A	72
<ul style="list-style-type: none"> at 50 °C / rated value 	A	62
<ul style="list-style-type: none"> at 60 °C / rated value 	A	60
Emitted mechanical power / for three-phase servomotors		
<ul style="list-style-type: none"> at 400 V / at standard switching / at 40 °C <ul style="list-style-type: none"> rated value 	W	37,000
<ul style="list-style-type: none"> at 500 V / at standard switching / at 40 °C <ul style="list-style-type: none"> rated value 	W	45,000
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	400 ... 600
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	35
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	15

Control electronics:

Type of voltage / of the controlled 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 50 Hz / for AC	V	24
• at 60 Hz / for AC	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		S2
Width	mm	55
Height	mm	160
Depth	mm	170
Type of mounting		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 change-over switches / 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 (1.5 ... 16 mm ²)
• finely stranded / with conductor end processing		0.75 ... 25 mm ²
• stranded		0.75 ... 35 mm ²
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point		
• solid		2x (1.5 ... 16 mm ²)
• finely stranded / with conductor end processing		1.5 ... 25 mm ²
• stranded		1.5 ... 35 mm ²
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points		
• solid		2x (1.5 ... 16 mm ²)
• finely stranded / with conductor end processing		2x (1.5 ... 16 mm ²)
• stranded		2x (1.5 ... 25 mm ²)
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal		
• when using the back cl		16 ... 2
• when using the front c		18 ... 2
• when using both clampi		2x (16 ... 2)
Type of the connectable conductor cross-section		
• for auxiliary contacts		
• solid		2x (0.5 ... 2.5 mm ²)
• finely stranded / with conductor end processing		2x (0.5 ... 1.5 mm ²)
• for AWG conductors / for auxiliary contacts		2x (20 ... 14)
• finely stranded / with wire end proc		2x (20 ... 16)

Ambient conditions:

Ambient temperature

- during operating
- during storage

°C	-25 ... +60
°C	-40 ... +80

Derating temperature

°C	40
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Protection class IP

IP00

Certificates/approvals:

General Product Approval

EMC

For use in hazardous locations



CCC



CSA



GOST



UL



C-TICK



ATEX

Test Certificates

Shipping Approval

other

[Type Test Certificates/Test Report](#)



GL



LRS



PRS

[Declaration of Conformity](#)

[Environmental Confirmations](#)

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel cage motors

- at 460/480 V / at standard circuit
 - at 50 °C / rated v alue
- at 575/600 V / at standard circuit
 - at 50 °C / rated v alue

hp 40

hp 60

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

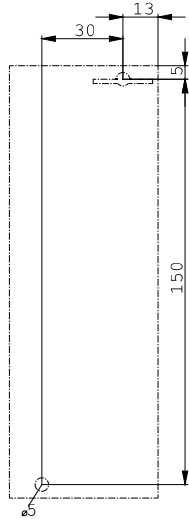
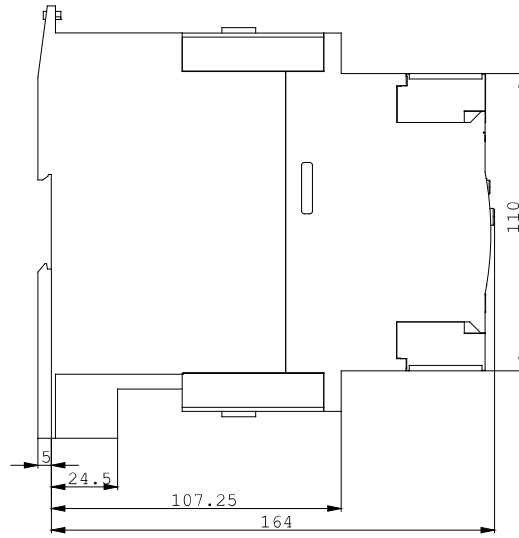
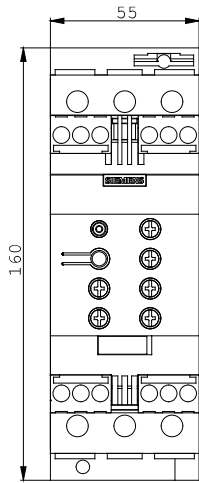
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RW4038-1BB05/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4038-1BB05



last change:

Feb 7, 2013