



SIRIUS soft starter S00 9 A, 4 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Spring-type terminals

General technical data		
product brand name		SIRIUS
product designation		Soft starter
product feature		
• integrated bypass contact system		Yes
• thyristors		Yes
product function		
• intrinsic device protection		No
• motor overload protection		No
• evaluation of thermistor motor protection		No
• external reset		No
• adjustable current limitation		No
• inside-delta circuit		No
product component motor brake output		No
insulation voltage rated value	V	600
degree of pollution		3, acc. to IEC 60947-4-2
blocking voltage of the thyristor maximum	V	1 200
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
operational current		
• at 40 °C rated value	A	9
• at 50 °C rated value	A	8
• at 60 °C rated value	A	7
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	2.2
• at 400 V		
— at standard circuit at 40 °C rated value	kW	4
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	2
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 [%]	%	10

continuous operating current [% of I _e] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	1
Control circuit/ Control		
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 rated value	V	24
• at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
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 rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
display version for fault signal		red
Mechanical data		
size of engine control device		S00
width	mm	45
height	mm	120
depth	mm	150
fastening method		screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	15
• downwards	mm	40
wire length maximum	m	300
number of poles for main current circuit		3
Connections/ Terminals		
type of electrical connection		
• for main current circuit		spring-loaded terminals
• for auxiliary and control circuit		spring-loaded terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		1
number of CO contacts for auxiliary contacts		0
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
• solid		2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²)
• finely stranded with core end processing		2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		
• using the front clamping point		2x (16 ... 10)
type of connectable conductor cross-sections for main contacts		
• solid		1 ... 4 mm ²
• finely stranded with core end processing		1 ... 2.5 mm ²
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 ... 2.5 mm ²)
• finely stranded with core end processing		2x (0.25 ... 1.5 mm ²)
type of connectable conductor cross-sections for AWG		

cables			16 ... 12 2x (24 ... 14)
Ambient conditions			
installation altitude at height above sea level	m		5 000
environmental category			- during transport according to IEC 60721 - during storage according to IEC 60721 - during operation according to IEC 60721
ambient temperature	°C		-25 ... +60
	°C		-40 ... +80
derating temperature	°C		40
protection class IP on the front according to IEC 60529			IP20
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front
Environmental footprint			
global warming potential [CO2 eq] total	kg		63.9
global warming potential [CO2 eq] during manufacturing	kg		11.1
global warming potential [CO2 eq] during sales	kg		0.109
global warming potential [CO2 eq] during operation	kg		54.3
global warming potential [CO2 eq] after end of life	kg		-1.64
UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
- at 220/230 V — at standard circuit at 50 °C rated value	hp		2
- at 460/480 V — at standard circuit at 50 °C rated value	hp		5
contact rating of auxiliary contacts according to UL			B300 / R300
Approvals Certificates			
General Product Approval			
   Confirmation  			
EMV	Test Certificates	other	Environment
	KC	Type Test Certificates/Test Report	Confirmation
			Miscellaneous 
Environment			
  Environmental Confirmations			
Further information			
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3016-2BB04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-2BB04			



