SIEMENS

Data sheet 3RW4047-1BB14



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw 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		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
insulation voltage rated value	V	600
degree of pollution		3, acc. to IEC 60947-4-2
blocking voltage of the thyristor maximum	V	1 600
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 	А	106
 at 50 °C rated value 	А	98
at 60 °C rated value	Α	90
yielded mechanical performance for 3-phase motors		
● at 230 V		
 at standard circuit at 40 °C rated value 	kW	30
● at 400 V		
 at standard circuit at 40 °C rated value 	kW	55
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30
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 [%]	%	20

adjustable motor current for motor overload protection	А	46
minimum rated value continuous operating current [% of le] at 40 °C		115
power loss [W] at operational current at 40 °C during	W	21
operation typical	VV	21
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	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 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	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
fastening method		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
required spacing with side-by-side mounting		
• upwards	mm	60
at the side	mm	30
 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		screw-type terminals
for auxiliary and control 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 mm²)
 finely stranded with core end processing 		2.5 35 mm²
• stranded		4 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 16 mm²)
 finely stranded with core end processing 		2.5 50 mm²
• stranded		10 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)

e stranded 2x (10 50 mm²)	syranded 2x (1050 mm²) type of connectable conductor cross-sections for AWG cables for main contracts for box terminal	 finely stranded with core end processing 		2x (2.5 35 mm²)
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ambient temperature • during operation • during storage • C -25 +60 • during storage • C -40 +80 derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • 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 75 contact rating of auxiliary contacts according to UL Approvals Certificates	ambient temperature • during operation • during storage derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • 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 75 contact rating of auxiliary contacts according to UL Approvals Certificates	during storage according to IEC 60721		
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during storage derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 IP20 Environmental Froduct Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life kg -6.65 UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor 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 75 contact rating of auxiliary contacts according to UL Approvals Certificates	oluring storage derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Environmental Froduct Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life	ambient temperature		
derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation kg global warming potential [CO2 eq] during operation kg global warming potential [CO2 eq] after end of life kg global warming potential [CO2 eq] after end of life kg -6.65 UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor at standard circuit at 50 °C rated value at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Environmental Froduct Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life block ratings yielded mechanical performance [hp] for 3-phase AC motor	 during operation 	°C	-25 +60
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales kg 0.471 global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V — at standard circuit at 50 °C rated value at 460/480 V — at standard circuit at 50 °C rated value bp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Environmental Footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V — at standard circuit at 50 °C rated value at 460/480 V — at standard circuit at 50 °C rated value bp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	during storage	°C	-40 +80
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Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V at standard circuit at 50 °C rated value at 460/480 V at standard circuit at 50 °C rated value bp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during sales global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V at standard circuit at 50 °C rated value at 460/480 V at standard circuit at 50 °C rated value bp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
global warming potential [CO2 eq] total kg 175 global warming potential [CO2 eq] during manufacturing kg 23.7 global warming potential [CO2 eq] during sales kg 0.471 global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 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 30 • at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	global warming potential [CO2 eq] total kg 175 global warming potential [CO2 eq] during manufacturing kg 23.7 global warming potential [CO2 eq] during sales kg 0.471 global warming potential [CO2 eq] during operation kg 158 global warming potential [CO2 eq] after end of life kg -6.65 JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 V — at standard circuit at 50 °C rated value hp 30 • at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	Environmental footprint		
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Vielded mechanical performance [hp] for 3-phase AC motor • 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 75 contact rating of auxiliary contacts according to UL Approvals Certificates	yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 V — at standard circuit at 50 °C rated value hp 30 • at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL Approvals Certificates			
yielded mechanical performance [hp] for 3-phase AC motor • 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 75 contact rating of auxiliary contacts according to UL Approvals Certificates	yielded mechanical performance [hp] for 3-phase AC motor • 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 75 contact rating of auxiliary contacts according to UL Approvals Certificates	0 0 1 1 1		
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— at standard circuit at 50 °C rated value hp 30 • at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL B300 / R300 Approvals Certificates	— at standard circuit at 50 °C rated value hp 30 • at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL B300 / R300 Approvals Certificates			
at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL Approvals Certificates	at 460/480 V — at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL Approvals Certificates		hn	30
— at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL B300 / R300 Approvals Certificates	— at standard circuit at 50 °C rated value hp 75 contact rating of auxiliary contacts according to UL B300 / R300 Approvals Certificates		Пр	
contact rating of auxiliary contacts according to UL Approvals Certificates B300 / R300	contact rating of auxiliary contacts according to UL Approvals Certificates		hn	75
Approvals Certificates	Approvals Certificates		ΠÞ	
				5000 / 1\000
	General Product Approval	· · · · · · · · · · · · · · · · · · ·		













EMV For use in hazardous locations Test Certificates Maritime application

<u>KC</u>





Special Test Certificate

Type Test Certificates/Test Report



Maritime application

other

Railway







Confirmation

Special Test Certificate

Confirmation

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 for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RW4047-1BB14

Cax online generator

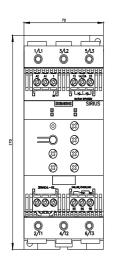
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4047-1BB14}$

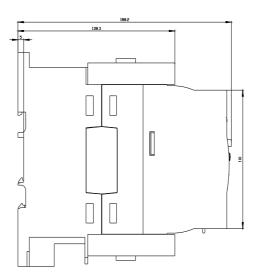
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

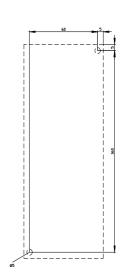
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB14

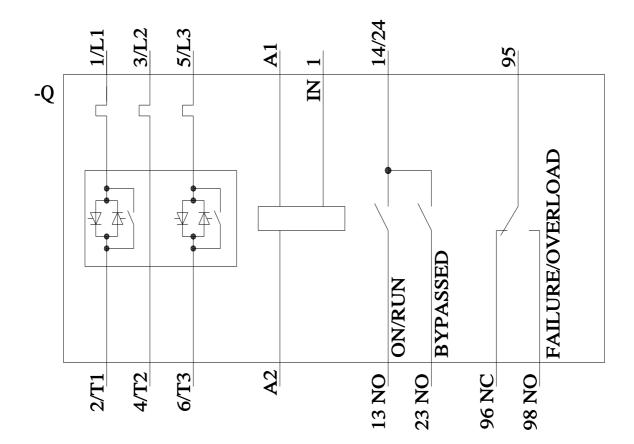
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-1BB14&lang=en









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