SIEMENS

Data sheet 3RW3046-1BB14



SIRIUS soft starter S3 80 A, 45 kW/400 V, 40 °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 		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	1 600
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	80
 at 50 °C rated value 	Α	73
at 60 °C rated value	А	66
yielded mechanical performance for 3-phase motors		
• at 230 V		
 at standard circuit at 40 °C rated value 	kW	22
• at 400 V		
 at standard circuit at 40 °C rated value 	kW	45
yielded mechanical performance [hp] for 3-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 [%]	%	10

continuous energing correct [0/ of let -4 40 00	0/	115
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	12
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 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	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		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 (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)
finely stranded with core end processing		2x (2.5 35 mm²)
• stranded		2x (10 50 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		

using the front clamping point using both damping point vising both damping	 using the back clamping point 		10 2/0			
• using both clamping points type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded •						
type of connectable conductor cross-sections for DIN cable lug for main contacts • ifnely stranded • stranded • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • solid • ifnely stranded with core end processing 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 1ype of connectable conductor cross-sections for AWG cables • for auxiliary contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts 2x (7 1/0) 2x (20 14) Ambient conditions Installation altitude at height above sea level environmental category • during transport according to IEC 60721 • during storage according to IEC 60721 • during operation of ice, no condensation), 3C3 (no salt mist), 152 (sand must not get inside the devices), 3M6 ambient temperature • during operation • during storage • "C" -25+60 • during storage • "C" -40+80 derating temperature • during operation for the according to IEC 60529 touch protection calss IP on the front according to IEC 60529 Environmental Footprint Environmental Footprint Environmental Footprint Environmental Footprint Environmental Footprint Environmental [CO2 eq] during sales global warming potential [CO2 eq] during manufacturing kg 18.6 global warming potential [CO2 eq] during sales kg 0.423 global warming potential [CO2 eq] during sales kg 0.423 global warming potential [CO2 eq] during sales kg 0.423 global warming potential [CO2 eq] during sales kg 0.423 global warming potential [CO2 eq] during operation kg 14.6 Levi Sandard circuit at 50 "C rated value kg 14.6 Levi Sandard circuit at 50 "C rated value kg 14.6 Levi Sandard circuit at 50 "C rated value kg 14.6 Levi Sandard circuit at 50 "C rated value kg 14.6 Levi Sandard circuit at 50 "C ra						
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Finely stranded with core end processing	•					
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installation altitude at height above sea level environmental category • during transport according to IEC 60721 • during storage according to IEC 60721 • during operation according to IEC 60721 * during operation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 * during operation • during operation • during storage • during storage • derating temperature * protection class IP on the front according to IEC 60529 * touch protection on the front according to IEC 60529 * IP20 * touch protection on the front according to IEC 60529 * IP20 * Ip20 * Touch protection on the front according to IEC 60529 * Ip20 * Touch protection on the front according to IEC 60529 * Ip20 * Touch protection on the front according to IEC 60529 * Ip20 * Touch protection on the front according to IEC 60529 * Ip20 * Touch protection on the front according to IEC 60529 * Ip20 * Touch protection on the front according to IEC 60529 * Ip20 * Touch protection on the front according to IEC 60529 * Ip20 * Ip20 * Ip20 * Yes * global warming potential [CO2 eq] during manufacturing * kg	for auxiliary contacts		2x (20 14)			
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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 operation global warming potential [CO2 eq] during operation kg 140 global warming potential [CO2 eq] after end of life kg 4.48 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 • at 460/480 V — at standard circuit at 50 °C rated value • bp 50 contact rating of auxiliary contacts according to UL Approvals Certificates	 during storage according to IEC 60721 					
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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 kg 0.423 global warming potential [CO2 eq] during operation kg 140 global warming potential [CO2 eq] after end of life kg -4.48 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 50 contact rating of auxiliary contacts according to UL Approvals Certificates	derating temperature	°C	40			
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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 kg 0.423 global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life kg 140 global warming potential [CO2 eq] after end of life kg -4.48 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 50 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			
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global warming potential [CO2 eq] during operation kg 140 global warming potential [CO2 eq] after end of life kg -4.48 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 25 • at 460/480 V — at standard circuit at 50 °C rated value hp 50 contact rating of auxiliary contacts according to UL Approvals Certificates	global warming potential [CO2 eq] during manufacturing	kg	18.6			
global warming potential [CO2 eq] after end of life kg -4.48 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 25 • at 460/480 V — at standard circuit at 50 °C rated value hp 50 contact rating of auxiliary contacts according to UL Approvals Certificates	global warming potential [CO2 eq] during sales	kg	0.423			
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 50 contact rating of auxiliary contacts according to UL Approvals Certificates	global warming potential [CO2 eq] during operation	kg	140			
yielded mechanical performance [hp] for 3-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 Approvals Certificates	global warming potential [CO2 eq] after end of life	kg	-4.48			
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 50 contact rating of auxiliary contacts according to UL Approvals Certificates	UL/CSA ratings					
— 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 Approvals Certificates	yielded mechanical performance [hp] for 3-phase AC motor					
at 460/480 V — at standard circuit at 50 °C rated value hp 50 contact rating of auxiliary contacts according to UL Approvals Certificates	• at 220/230 V					
— at standard circuit at 50 °C rated value hp 50 contact rating of auxiliary contacts according to UL B300 / R300 Approvals Certificates	 — at standard circuit at 50 °C rated value 	hp	25			
contact rating of auxiliary contacts according to UL Approvals Certificates B300 / R300	• at 460/480 V					
Approvals Certificates	— at standard circuit at 50 °C rated value	hp	50			
			B300 / R300			
	Approvals Certificates					
General Product Approval EMV	General Product Approval		EMV			













EMV	Test Certificates		other		Railway
<u>KC</u>	Type Test Certificates/Test Report	Special Test Certific- ate	<u>Miscellaneous</u>	Confirmation	Special Test Certific- ate

Environment







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=3RW3046-1BB14

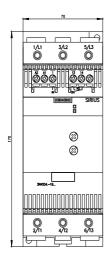
Cax online generator

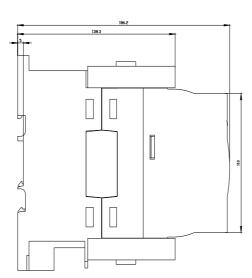
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3046-1BB14

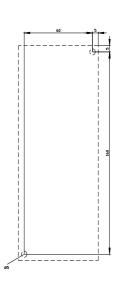
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

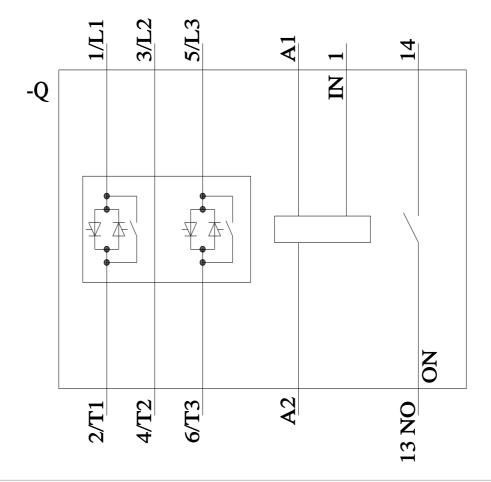
https://support.industry.siemens.com/cs/ww/en/ps/3RW3046-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3046-1BB14&lang=en









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