SIEMENS

Data sheet

3RW4046-1BB14



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		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	A	80			
• at 50 °C rated value	А	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			
	%				

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adjustable motor current for motor overload protection minimum rated value	A	43
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 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 mm ²
• 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 mm ²
• stranded		10 70 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		21/ (2.5 16 mm²)
• solid		2x (2.5 16 mm²)

e during operation according to IEC 60721(sand must not get inside the devices), 1M4• during operation according to IEC 607213K6 (no formation of ice, no condensation), 3C3 (no salt no 3S2 (sand must not get into the devices), 3M6ambient temperature°C-25 +60• during operation°C-25 +80• during storage°C-40 +80derating temperature°C40protection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529IP20Environmental footprintSignal according to IEC 60529Environmental footprintKgGlobal Warming Potential [CO2 eq] totalkgGlobal Warming Potential [CO2 eq] during manufacturingkgglobal warming Potential [CO2 eq] during operationkgGlobal Warming Potential [CO2 eq] during saleskgGlobal Warming Potential [CO2 eq] during operationkgHig-6.65JL/CSA ratingsyielded mechanical performance [hp] for 3-phase AC motor • at 220/230 VImage: Signal Accord a	stranded 2x (10 50 mm ³) 2x (10 10) 2x (10 50 mm ³) 2x (10 70 mm ³) 2x (10 10) 2x (10 10) 2x (10 10) 2x (20 11, 5 mm ³) 2x (20 14) 2x (20 16) 2x (20 10) 1x (x0 moust not get inside the devices), 1x4 4uring torage according to IEC 60721 4uring torage according to IEC 60721 4uring torage according to IEC 60721 4uring operation 4uring oper	stranded or connectable conductor cross-sections for AWG bles for main contacts for box terminal	_				
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JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 V	/CSA ratings	bal Warming Potential [CO2 eq] during operation	kg	158			
yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 V		bal Warming Potential [CO2 eq] after end of life	kg	-6.65			
• at 220/230 V	ielded mechanical performance [hp] for 3-phase AC motor	SA ratings					
		Ided mechanical performance [hp] for 3-phase AC motor					
- at standard circuit at 50 °C rated value hp 25	• at 220/230 V	• at 220/230 V					
• at 460/480 V			hp	25			
— at standard circuit at 50 °C rated value hp 50	— at standard circuit at 50 °C rated value hp 50	— at standard circuit at 50 °C rated value	hp	50			
contact rating of auxiliary contacts according to UL B300 / R300	ontact rating of auxiliary contacts according to UL B300 / R300	ntact rating of auxiliary contacts according to UL					
General Product Approval	Seneral Product Approval	neral Product Approval					
Approvals Certificates General Product Approval CCC CCC CCC CCC CCC CCC CCC CCC CCC C	General Product Approval	eneral Product Approval	5	Confirmation			

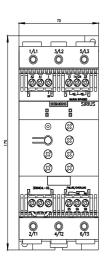
Marine / Shipping			other	Railway	
	Lloyd's Register uis	PRS	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>
Environment					
EPD	Siemens EcoTech	Environmental Con- firmations			

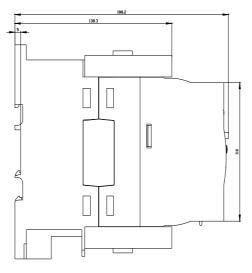
Further information

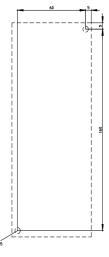
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4046-1BB14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4046-1BB14

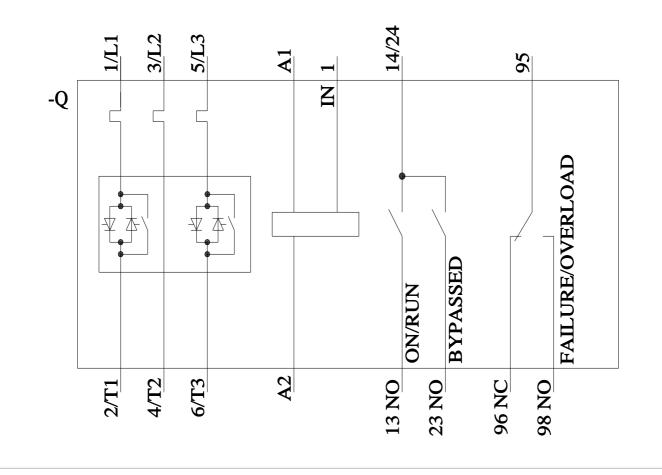
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4046-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4046-1BB14&lang=en









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