SIEMENS

Data sheet

3RW3046-1BB14



SIRIUS soft starter S3 80 A, 45 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 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
reference code acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	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	W	22 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	45 000
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

	0/		
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	%	6 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		\$3	
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	
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 mm ²	
stranded		4 70 mm ²	
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			

• solid		2x (2.5 16 mm²)	
 finely stranded with core end processing 		2x (2.5 35 mm ²)	
• stranded		2x (10 50 mm ²)	
type of connectable conductor cross-sections at A cables for main contacts for box terminal	WG		
 using the back clamping point 		10 2/0	
 using the front clamping point 		10 2/0	
 using both clamping points 		2x (10 1/0)	
type of connectable conductor cross-sections for I cable lug for main contacts	DIN		
 finely stranded 		2 x (10 50 mm²)	
stranded		2x (10 70 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.5 2.5 mm²)	
 finely stranded with core end processing 		2x (0.5 1.5 mm²)	
type of connectable conductor cross-sections at A cables	WG		
 for main contacts 		2x (7 1/0)	
 for auxiliary contacts 		2x (20 14)	
Ambient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
• during operation acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
ambient temperature			
 during operation 	°C	-25 +60	
during storage	°C	-40 +80	
derating temperature	°C	40	
protection class IP on the front acc. to IEC 60529		IP20	
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front	
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity
	٩Ľ		S CE
Test Certificates other		Railway	
Type Test Certific- Special Test Certific- Conf	firmation M	Aiscellaneous Vibration and	Shook

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		B300 / R300
Further information		
Simulation Tool for Soft Starters (STS)		

https://support.industry.siemens.com/cs/ww/en/view/101494917

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

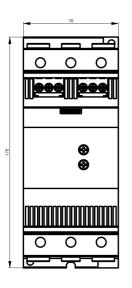
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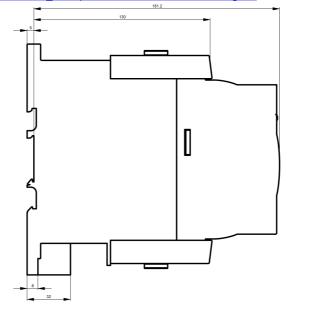
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3046-1BB14

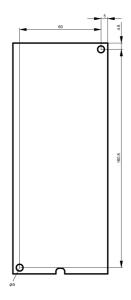
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

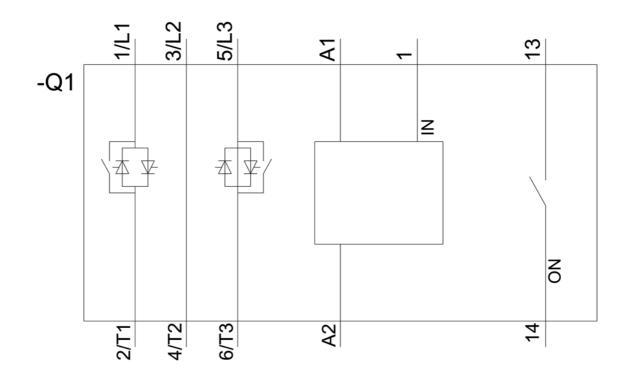
https://support.industry.siemens.com/cs/ww/en/ps/3RW3046-1BB14

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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