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 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 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				
product designation		Soft starter		
operational current				
 at 40 °C rated value 	Α	80		
 at 50 °C rated value 	Α	73		
at 60 °C rated value	Α	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 operating current [% of le] at 40 °C	%	115		

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• stranded	• solid		2x (2.5 16 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
• using the back clamping point 10 2/0	type of connectable conductor cross-sections for AWG		
	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 DIN cable lug for main contacts		
 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 for AWG cables		
• 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 according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according 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 according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
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
Approvals Certificates		

General Product Approval





Confirmation







General Product Approval EMV Test Certificates other





KC Type Test Certificates/Test Report

Special Test Certificate

Confirmation

other Railway Environment

<u>Miscellaneous</u> <u>Special Test Certificate in Firmations</u> <u>Environmental Confirmations</u>

Further information

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/ Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

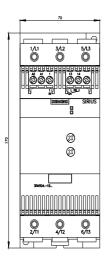
Industry Mall (Online ordering system)

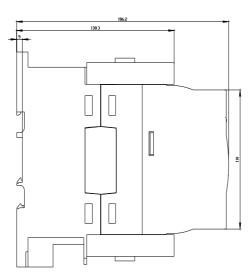
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3046-1BB14

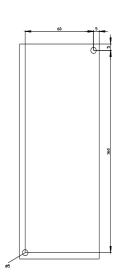
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3046-1BB14

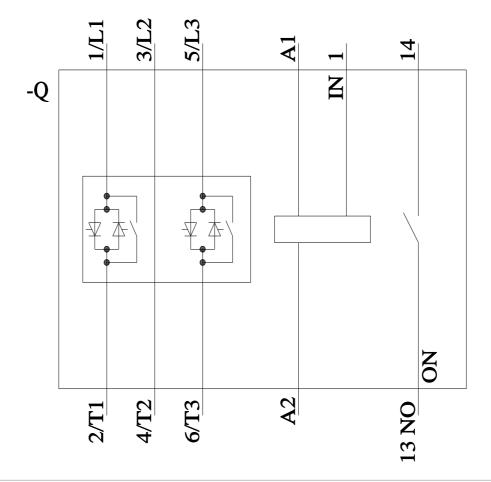
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3046-1BB14

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









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