## **SIEMENS**

Data sheet 3RW3016-1BB14



SIRIUS soft starter S00 9 A, 4 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		
<ul> <li>intrinsic device protection</li> </ul>		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		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	1 200
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		
<ul> <li>at 40 °C rated value</li> </ul>	Α	9
• at 50 °C rated value	Α	8
at 60 °C rated value	Α	7
yielded mechanical performance for 3-phase motors		
● at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	2.2
● at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	4
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	2
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			
operation typical  Stype of voltage of the control supply voltage  Control supply voltage frequency 2 rated value  Lead of supply voltage of the control supply voltage frequency  Lead of supply voltage 1 at AC at 50 Hz  Lead of supply voltage 1 at	continuous operating current [% of le] at 40 °C	%	115
Uppe of voltage of the control supply voltage Control supply voltage frequency 7 rated value Control supply voltage frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated		W	1
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number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  1 number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (1 2.5 mm²)			**
number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • finely stranded with core end processing  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	for auxiliary and control circuit		screw-type terminals
number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	number of NC contacts for auxiliary contacts		0
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	number of NO contacts for auxiliary contacts		1
contacts for box terminal using the front clamping point  • solid  • solid  2x (1 2.5 mm²), 2x (2.5 6 mm²)  • finely stranded with core end processing  2x (1 2.5 mm²), 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts  • solid  2x (0.25 2.5 mm²)  • finely stranded with core end processing  2x (0.25 1.5 mm²)  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	number of CO contacts for auxiliary contacts		0
<ul> <li>◆ finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> <li>◆ using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>◆ solid</li> <li>◆ finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>◆ for auxiliary contacts</li> <li>◆ for auxiliary contacts finely stranded with core end processing</li> <li>2x (20 14)</li> <li>xx (20 16)</li> </ul>	· · · · · · · · · · · · · · · · · · ·		
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²)
cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  2x (20 14)  • for auxiliary contacts finely stranded with core end processing	<ul> <li>finely stranded with core end processing</li> </ul>		2x (1 2.5 mm²), 2x (2.5 6 mm²)
<ul> <li>using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts finely stranded with core end processing</li> <li>2x (0.25 2.5 mm²)</li> <li>2x (0.25 1.5 mm²)</li> <li>2x (20 14)</li> <li>2x (20 14)</li> <li>2x (20 16)</li> </ul>	••		
type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  2x (0.25 2.5 mm²)  2x (0.25 1.5 mm²)  2x (20 14)  2x (20 14)  2x (20 16)	<ul> <li>using the front clamping point</li> </ul>		2x (16 10)
ontacts  o solid  finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  of for auxiliary contacts  for auxiliary contacts finely stranded with core end processing  2x (0.25 2.5 mm²)  2x (0.25 1.5 mm²)  2x (20 14)  2x (20 14)  2x (20 16)			,
• finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables      • for auxiliary contacts     • for auxiliary contacts finely stranded with core end processing  2x (0.25 1.5 mm²)  2x (20 14)  2x (20 14)	**		
<ul> <li>◆ finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>◆ for auxiliary contacts</li> <li>◆ for auxiliary contacts finely stranded with core end processing</li> </ul> 2x (20 14) 2x (20 16)	• solid		2x (0.25 2.5 mm²)
type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing  2x (20 14) 2x (20 16)			
<ul> <li>for auxiliary contacts</li> <li>for auxiliary contacts finely stranded with core end processing</li> <li>2x (20 14)</li> <li>2x (20 16)</li> </ul>	type of connectable conductor cross-sections for AWG		
• for auxiliary contacts finely stranded with core end processing 2x (20 16)			2x (20 14)
processing	•		
Ambient conditions	processing		ZX (ZU 10)
	Ambient conditions		

installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
<ul> <li>during storage according to IEC 60721</li> </ul>		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		
<ul> <li>during operation</li> </ul>	°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
Environmental footprint		
global warming potential [CO2 eq] total	kg	63.9
global warming potential [CO2 eq] during manufacturing	kg	11.1
global warming potential [CO2 eq] during sales	kg	0.109
global warming potential [CO2 eq] during operation	kg	54.3
global warming potential [CO2 eq] after end of life	kg	-1.64
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	2
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	5
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

**General Product Approval** 



Confirmation









EMV Test Certificates other Environment



<u>KC</u>

Type Test Certificates/Test Report

**Miscellaneous** 

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- 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=3RW3016-1BB14

Cax online generator

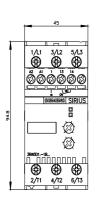
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-1BB14

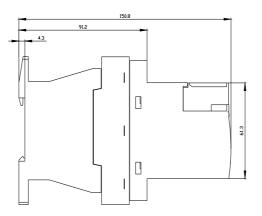
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

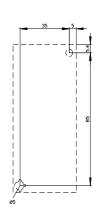
https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-1BB14

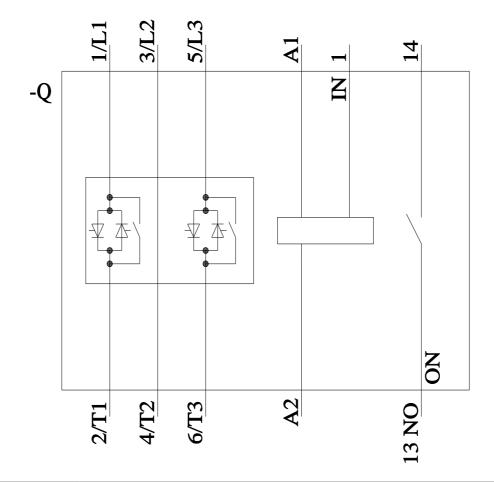
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3016-1BB14&lang=en









last modified: 11/9/2024 🖸