SIEMENS

Data sheet 3RW3036-1BB14



SIRIUS soft starter S2 45 A, 22 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	А	45
at 50 °C rated value	А	42
at 60 °C rated value	А	39
yielded mechanical performance for 3-phase motors • at 230 V		
— at standard circuit at 40 °C rated value	kW	11
• at 400 V		
— at standard circuit at 40 °C rated value	kW	22
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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

power loss [W] at operational current at 40 °C during operation bytes of training of the control supply voltage properties bytes of voltage of the control supply voltage at 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
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type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • solid • solid type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • solid • solid • solid • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
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• finely stranded with core end processing • stranded 1.5 25 mm² 1.5 35 mm² type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded 2x (1.5 16 mm²) 2x (1.5 16 mm²) 2x (1.5 16 mm²) • stranded type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			2x (1.5 16 mm²)
● stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point ● solid ● stranded with core end processing ● stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points ● solid ● solid ● solid ● solid ● solid ● sinely stranded with core end processing ● stranded 2x (1.5 16 mm²) 2x (1.5 25 mm²)			
contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • stranded 2x (1.5 16 mm²) 2x (1.5 35 mm² 2x (1.5 16 mm²) 2x (1.5 16 mm²) 2x (1.5 16 mm²) 2x (1.5 16 mm²) 2x (1.5 25 mm²) type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	• stranded		
• finely stranded with core end processing • stranded 1.5 25 mm² type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid 2x (1.5 16 mm²) • finely stranded with core end processing • stranded 2x (1.5 25 mm²) type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	contacts for box terminal using the back clamping point		
● stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points ● solid ● sinely stranded with core end processing ● stranded type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
 finely stranded with core end processing stranded 2x (1.5 16 mm²) 2x (1.5 25 mm²) type of connectable conductor cross-sections for AWG cables for main contacts for box terminal 	**		
• stranded	• solid		2x (1.5 16 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
• using the back clamping point 16 2	type of connectable conductor cross-sections for AWG		2x (1.9 29 IIIIII')
	using the back clamping point		16 2

 using the front clamping point 		18 2
using both clamping points		2x (16 2)
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 auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)
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	15
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	30
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

General Product Approval









Confirmation



General Product Approval EMV Test Certificates other





<u>KC</u>

Special Test Certificate

Type Test Certificates/Test Report

Miscellaneous

other Railway Environment

 Confirmation
 Special Test Certificate
 Confirmation
 Environmental Confirmations

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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=3RW3036-1BB14

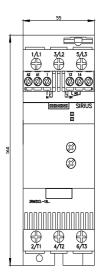
Cax online generator

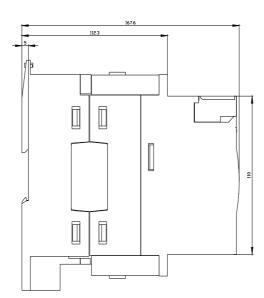
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3036-1BB14

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

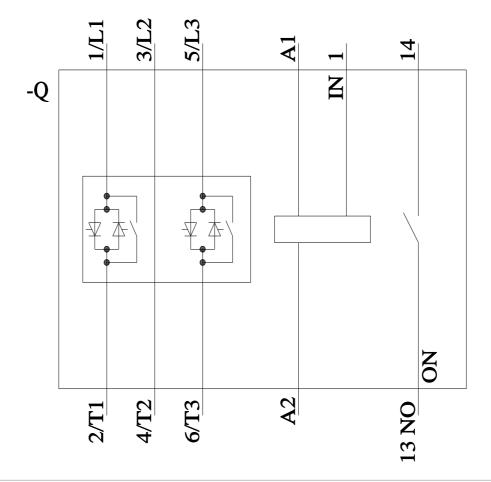
https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3036-1BB14&lang=en









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