## 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 designation		Soft starter
product feature	-	
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function	_	
intrinsic device protection		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		No
<ul> <li>adjustable current limitation</li> </ul>		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	1 600
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	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

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	6
operation typical		
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	%	-10
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	%	-10
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	%	-10
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data		
size of engine control device		S2
width	mm	55
height	mm	160
depth	mm	170
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
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
<ul> <li>for auxiliary and control circuit</li> </ul>		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 (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1.5 25 mm²
stranded		1.5 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1.5 25 mm²
stranded		1.5 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1.5 16 mm²)
• stranded		2x (1.5 25 mm <sup>2</sup> )
type of connectable conductor cross-sections for AWG		
cables for main contacts for box terminal		

<ul> <li>using the back</li> </ul>	clamping point			16 2			
<ul> <li>using the front of</li> </ul>	clamping point			18 2			
<ul> <li>using both clam</li> </ul>	iping points			2x (16 2)			
type of connectable contacts	conductor cross-sections	for auxiliary					
<ul> <li>solid</li> </ul>				2x (0.5 2.5 mr	m²)		
<ul> <li>finely stranded</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>			2x (0.5 1.5 mr	2x (0.5 1.5 mm²)		
type of connectable cables	conductor cross-sections	for AWG					
<ul> <li>for auxiliary con</li> </ul>	itacts			2x (20 14)			
<ul> <li>for auxiliary con</li> </ul>	tacts finely stranded with co	ore end		2x (20 16)			
processing							
Ambient conditions							
installation altitude a	at height above sea level		m	5 000			
environmental categ	ory						
<ul> <li>during transport</li> </ul>	t according to IEC 60721			2K2, 2C1, 2S1, 2	2M2 (max. fall height 0	.3 m)	
<ul> <li>during storage a</li> </ul>	according to IEC 60721			1K6 (only occas	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2		
during operation	n according to IEC 60721			3K6 (no formatio	(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature				JOZ (Sand must	not get into the devices	5), 51010	
ambient temperature			*0	25 100			
<ul> <li>during operation</li> </ul>	1		°C °C	-25 +60			
during storage			°C	-40 +80			
derating temperature	)		°C	40			
protection class IP o	n the front according to I	EC 60529		IP20			
touch protection on	the front according to IEC	60529		finger-safe, for v	ertical contact from the	front	
Environmental footprin	nt						
Environmental Produc	t Declaration(EPD)			Yes			
global warming potent	ial [CO2 eq] total		kg	159			
global warming potent	ial [CO2 eq] during manufa	cturing	kg	22			
global warming potent	ial [CO2 eq] during sales		kg	0.289			
global warming potential [CO2 eq] during operation		kg	140				
global warming potential [CO2 eq] after end of life			kg	-3.2			
UL/CSA ratings			Ŭ				
yielded mechanical p	performance [hp] for 3-ph	ase AC motor					
<ul> <li>at 220/230 V</li> </ul>							
— at standar	d circuit at 50 °C rated value	e	hp	15			
• at 460/480 V							
— at standar	d circuit at 50 °C rated valu	e	hp	30			
contact rating of aux	iliary contacts according	to UL		B300 / R300			
Approvals Certificates	i						
General Product Ap	•					EMV	
(m)	UK CA	CE		Ē	C D C	Â	
ccc	CA	EG-Konf.			נחנ	RCM	
EMV	Test Certificates		ot	her		Railway	
<u>KC</u>	Special Test Certific- ate	<u>Type Test Cer</u> ates/Test Re	<u>rtific-</u> port	<u>Miscellaneous</u>	Confirmation	<u>Special Test Certific-</u> <u>ate</u>	
Railway	Environment						
<u>Confirmation</u>	EPD	Siemens EcoTech		nvironmental Con- firmations			

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## Further information

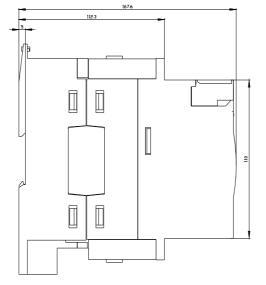
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.co m/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3036-1BB14 Cax online generator

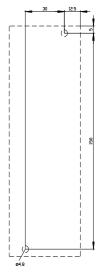
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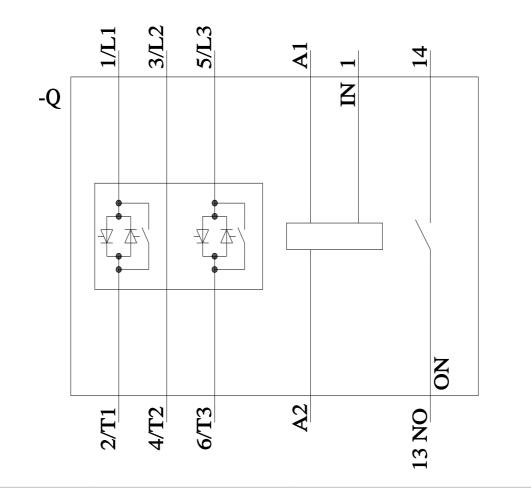
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-1BB14

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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