## SIEMENS

## Data sheet

## 3RW3036-2BB14



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 110-230 V AC/DC spring-type terminals

General technical data		
product brand name		SIRIUS
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
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 typical	W	6		
Control circuit/ Control				
	_	10/20		
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	%	-10		
DC				
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>		spring-loaded 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 mm <sup>2</sup>		
stranded     stranded		1.5 35 mm <sup>2</sup>		
type of connectable conductor cross-sections for main				
<ul> <li>contacts for box terminal using the back clamping point</li> <li>solid</li> </ul>		2x (1.5 16 mm²)		
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>		1.5 25 mm² 1.5 35 mm²		
type of connectable conductor cross-sections for main		1.0 00 mm		
contacts for box terminal using both clamping points <ul> <li>solid</li> </ul>		2x (1.5 16 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1.5 16 mm <sup>2</sup> )		
stranded		2x (1.5 25 mm <sup>2</sup> )		
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal				
using the back clamping point		16 2		
- using the back damping point		10 2		

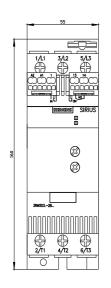
<ul> <li>using the front cla</li> </ul>	amping point			18 2			
using both clamping points			2x (16 2)				
	onductor cross-sections fe	or auxiliary					
contacts							
• solid					2x (0.25 2.5 mm²)		
finely stranded with core end processing				2x (0.25 1.5	2x (0.25 1.5 mm²)		
type of connectable co cables	onductor cross-sections for	or AWG					
<ul> <li>for auxiliary containing</li> </ul>	acts			2x (24 14)			
Ambient conditions				2X (2 1 1 1)			
	height above sea level		m	5 000			
environmental catego				3 000			
-	according to IEC 60721			2K2 2C1 2S1	2M2 (max. fall height 0.3	m)	
• ·	ccording to IEC 60721				sional condensation), 1C2	•	
					get inside the devices), 11		
<ul> <li>during operation</li> </ul>	according to IEC 60721			3K6 (no format	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			
<ul> <li>during storage</li> </ul>			°C	-40 +80			
derating temperature			°C	40			
protection class IP on	protection class IP on the front according to IEC 60529			IP20			
touch protection on th	touch protection on the front according to IEC 60529			finger-safe, for	inger-safe, for vertical contact from the front		
UL/CSA ratings							
yielded mechanical pe	rformance [hp] for 3-phas	e 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 auxil	iary contacts according to	UL		B300 / R300			
Approvals Certificates	, ,						
General Product Appr	oval						
Contraining	ovu						
		Confirmatio	n		$\frown$	$\sim$	
(SB)	CE			UK	( <b>m</b> )	(U <sub>I</sub> )	
				ГО			
CSA	EG-Konf.				ccc	UL	
General Product Ap- proval	EMV		1	Test Certificates		other	
P							
	Δ	<u>KC</u>		Type Test Certific-	Special Test Certific-	Miscellaneous	
FAL	<i>ا</i> لایک			ates/Test Report	ate		
LIIL	<u> </u>						
	RGM						
a tha u	Deiluseu						
other	Railway		t	Environment			
Confirmation	Special Test Certific-	Confirmatio	n I	Environmental Con-			
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Further information							
Simulation Tool for So							
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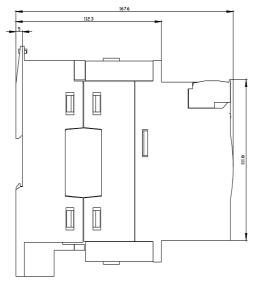
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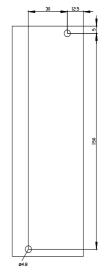
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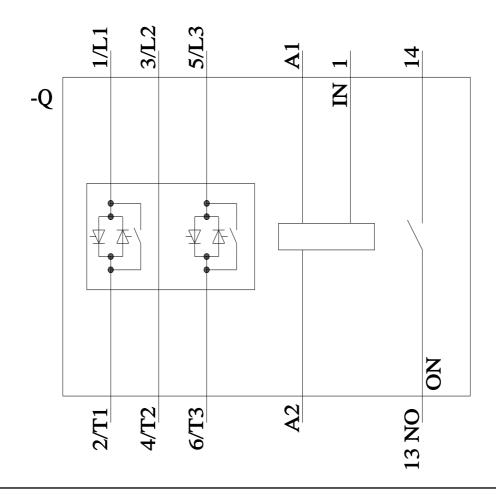
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