## 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		
<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
<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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	45
<ul> <li>at 50 °C rated value</li> </ul>	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	W	11 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	22 000
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

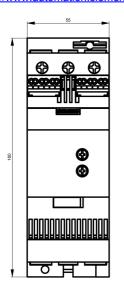
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during		6
operation typical		
Control circuit/ Control		
type of voltage of the control supply voltage		AC/DC
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated 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		
<ul> <li>for main current circuit</li> </ul>		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 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 mm <sup>2</sup>
• stranded		1.5 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		

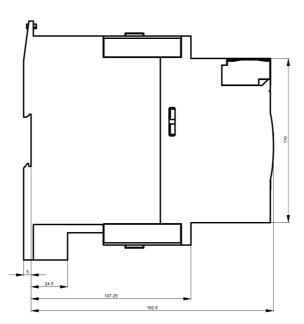
● solid		2x (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1.5 16 mm <sup>2</sup> )
• stranded		2x (1.5 25 mm <sup>2</sup> )
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		16 2
<ul> <li>using the front clamping point</li> </ul>		18 2
<ul> <li>using both clamping points</li> </ul>		2x (16 2)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 14)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
• during operation acc. 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 acc. to IEC 60529		IP20
touch protection on the front acc. to IEC 60529	-	finger-safe, for vertical contact from the front
Certificates/ approvals		
General Product Approval		EMC Declaration of
		Conformity
		^
(SP) (W) (U)		
CSA CCC UL		RCM EG-Konf.

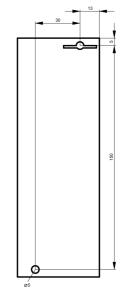
Test Certificates		other		Railway	
<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	Miscellaneous	<b>Confirmation</b>	Confirmation	Vibration and Shock

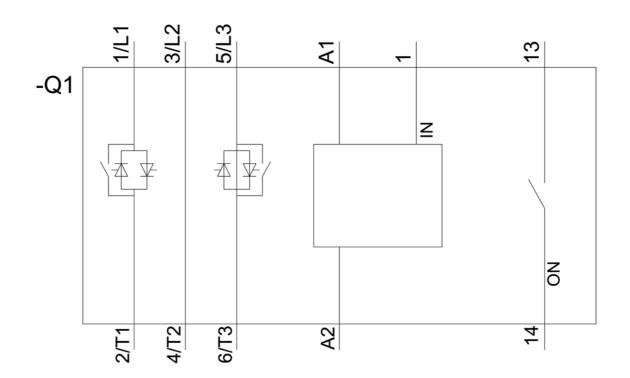
UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
• at 220/230 V			
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	15	
• at 460/480 V			
- at standard circuit at 50 °C rated value	hp	30	
contact rating of auxiliary contacts according to UL		B300 / R300	
Further information			
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917			
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=3RW3036-2BB14			
Cax online generator			

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3036-2BB14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-2BB14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3036-2BB14&lang=en









last modified: