# **SIEMENS**

# Data sheet

# 3RW30 36-1BB14



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				
<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			
Reference identifier acc. to DIN EN 61346-2	Q			
Reference indentifier acc. to DIN 40719 extended	G			
according to IEC 204-2 acc. to IEC 750				
Power Electronics				
Product designation	Soft starter			

Operating current				
• at 40 °C rated value	А	45		
● at 50 °C rated value	А	42		
• at 60 °C rated value	А	39		
Mechanical power output for three-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 three-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 operating current at 40 °C during operation typical	W	6		
Control electronics				
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 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	%	-10		

voltage at DC

voltage at DC

Relative positive tolerance of the control supply

10

%

Display version for fault signal		red
/lechanical data		
Size of engine control device		S2
Width	mm	55
Height	mm	160
Depth	mm	170
Mounting type	_	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 current 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 mm²)
Type of connectable conductor cross-sections at		
AWG conductors 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 (0.5 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)	
Type of connectable conductor cross-sections at			
AWG conductors			
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)	
<ul> <li>for auxiliary contacts finely stranded with con end processing</li> </ul>	е	2x (20 16)	
Ambient conditions			
Installation altitude at height above sea level	m	5 000	
Environmental category			,
<ul> <li>during transport acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> </ul>		<ul> <li>3K6 (no formation of ice, no condensation), 3C3 (salt mist), 3S2 (sand must not get into the device 3M6</li> <li>3K6 (no formation of ice, no condensation), 3C3 (salt mist), 3S2 (sand must not get into the device 3M6</li> </ul>	s), (no
• during operation acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 ( salt mist), 3S2 (sand must not get into the device 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		IP00	
Certificates/approvals			
General Product Approval		EMC Declaration Conformity	of
	) E	HE EG-Konf.	
Test Certificates other		Railway	
Type Test Certific- ates/Test Report         Special Test Certi- ficate         Misca	ellaneous	Confirmation Vibration and Shock	

UL/CSA ratings		
Yielded mechanical performance [hp] for three-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

### Further information

## Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

#### Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

## Industry Mall (Online ordering system)

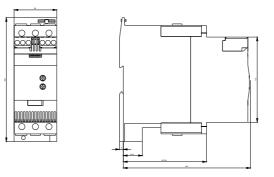
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3036-1BB14

## Cax online generator

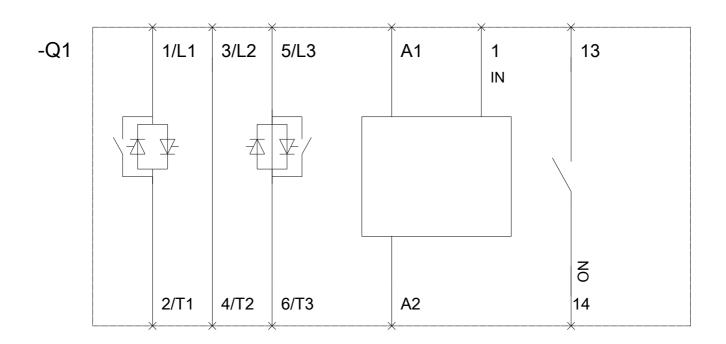
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3036-1BB14

#### 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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