# **SIEMENS**

Data sheet 3RW30 17-1BB04

SIRIUS soft starter S00 12.5 A, 5.5 kW/400 V, 40  $^{\circ}$ C 200-480 V AC, 24 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 according to IEC 204-2 acc. to IEC 750	G		

Product designation

Soft starter

Operating current		
• at 40 °C rated value	Α	12.5
at 50 °C rated value	Α	12
• at 60 °C rated value	Α	11
Mechanical power output for three-phase motors		
● at 230 V		
— at standard circuit at 40 °C rated value	W	3 000
● at 400 V		
— at standard circuit at 40 °C rated value	W	5 500
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	3
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	2
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 rated value	V	24
● at 60 Hz rated value	V	24
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
Control supply voltage 1 at DC rated value	V	24
Relative negative tolerance of the control supply	%	-20

voltage at DC

Relative positive tolerance of the control supply voltage at DC	%	20
Display version for fault signal		red
Mechanical data		
Size of engine control device		S00
Width	mm	45
Height	mm	95
Depth	mm	150
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	15
• 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 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 2.5 mm²), 2x (2.5 6 mm²)
• finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²)
Type of connectable conductor cross-sections at		
AWG conductors for main contacts for box terminal		2x (16 10)
using the front clamping point  Type of connectable conductor cross sections for		2. (10 10)
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 conductors		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)

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Ambient conditions

Installation altitude at height above sea level	m	5 000
Environmental category		
<ul> <li>during transport acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during operation acc. to IEC 60721</li> </ul>		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
during storage	°C	-40 +80
Derating temperature	°C	40
Protection class IP		IP20

**General Product Approval EMC** Declaration of Conformity



ates/Test Report











Test Certific- ates	other		
aics			
Type Test Certific-	Miscellaneous	Confirmation	

UL/CSA ratings		
Yielded mechanical performance [hp] for three-phase		
AC motor		
● at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	3
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	7.5
Contact rating of auxiliary contacts according to UL		B300 / R300

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=3RW3017-1BB04

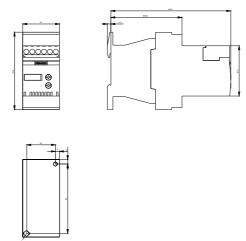
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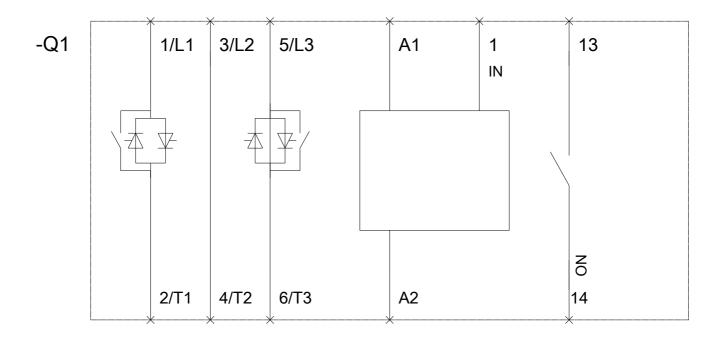
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3017-1BB04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW3017-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3017-1BB04&lang=en





last modified: 10/31/2018