# **SIEMENS**

Data sheet 3RW30 16-1CB04

SIRIUS soft starter S00 9 A, 4 kW/400 V, 40  $^{\circ}$ C 200-460 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	
<ul><li>Thyristors</li></ul>		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	
Adjustable current limitation		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		G	
according to IEC 204-2 acc. to IEC 750			

Power Electronics		
Product designation		Soft starter
Operating current		
• at 40 °C rated value	Α	9
• at 50 °C rated value	Α	8
• at 60 °C rated value	Α	7
Mechanical power output for three-phase motors		
● at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	2 200
● at 400 V		
— at standard circuit at 40 °C rated value	W	4 000
Yielded mechanical performance [hp] for three-phase	hp	2
AC motor at 200/208 V at standard circuit at 50 °C		
rated value		
Operating frequency rated value	Hz	50 60
Operating voltage at standard circuit rated value	V	200 460
Relative negative tolerance of the operating voltage at standard circuit	%	-10
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [%]	%	9
Continuous operating current [% of le] at 40 °C	%	100
Power loss [W] at operating current at 40 °C during operation typical	W	1
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 rated value	V	24
• at 60 Hz rated value	V	24
Relative negative tolerance of the control supply	%	-20
voltage at AC at 50 Hz		
Relative positive tolerance of the control supply	%	20
voltage at AC at 50 Hz		
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 voltage at DC	%	-20
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	98	
Depth	mm	98	
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	100	
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	-	0
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)
<ul> <li>finely stranded with core end processing</li> </ul>		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		
<ul> <li>using the front clamping point</li> </ul>	:	2x (16 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		
for auxiliary contacts		2x (20 14)

• for auxiliary contacts finely stranded with core end processing

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> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
<ul> <li>during storage acc. to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
<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 <b>+</b> 80	
Derating temperature	°C	40	
Protection class IP		IP20	

## Certificates/ approvals

**Declaration of General Product Approval EMC** Conformity













Declaration of Conformity	other		
Miscellaneous	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	2
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	5

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917

#### Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

#### Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3016-1CB04

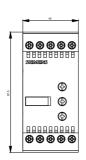
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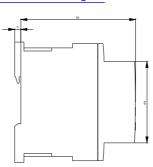
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-1CB04

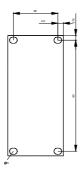
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-1CB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3016-1CB04&lang=en







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