SIEMENS

Data sheet 3RW30 16-2BB04

SIRIUS soft starter S00 9 A, 4 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 24 V AC/DC Spring-type terminals



General technical data		
Product brand name		SIRIUS
Product feature		
 integrated bypass contact system 		Yes
Thyristors		Yes
Product function		
 Intrinsic device protection 		No
 motor overload protection 		No
 Evaluation of thermistor motor protection 		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 according to IEC 204-2 acc. to IEC 750		G

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		
 at standard circuit at 40 °C rated value 	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
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	%	10
standard circuit	70	10
Minimum load [%]	%	10
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during	W	1
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 rated value	V	24
• at 60 Hz rated value	V	24
Relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-20
Relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
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	120
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	spring-loaded terminals
 for auxiliary and control current circuit 	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 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	
 using the front clamping point 	2x (16 10)
Type of connectable conductor cross-sections for main contacts	
• solid	1 4 mm²
 finely stranded with core end processing 	1 2.5 mm²

Type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.25 2.5 mm²)
• finely stranded with core end processing	2x (0.25 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	
• for main contacts	16 12
• for auxiliary contacts	2x (24 14)

Ambient conditions				
Installation altitude at height above sea level	m	5 000		
Environmental category				
 during transport acc. to IEC 60721 		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		IP20		

Certificates/ approvals

General Product Approval EMC Declaration of Conformity













Declaration of Conformity	Test Certific- ates	other		
Miscellaneous	Type Test Certificates/Test Report	Miscellaneous	Confirmation	

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	2
● at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	5
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,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3016-2BB04

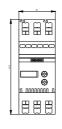
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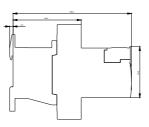
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-2BB04

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

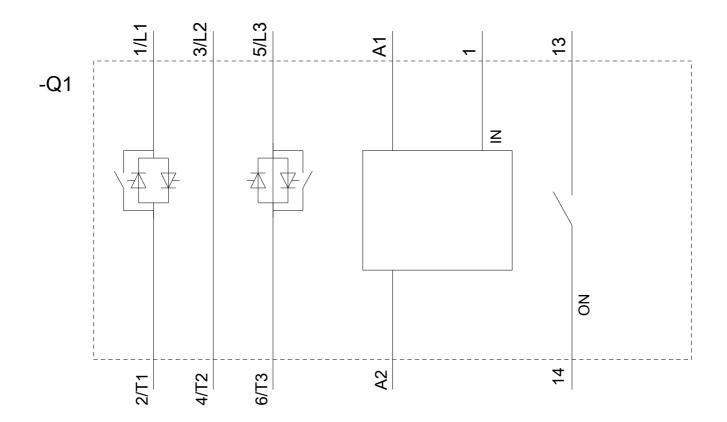
https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3016-2BB04&lang=en









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