SIEMENS

Data sheet

3RW30 16-1BB14



SIRIUS soft starter S00 9 A, 4 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			
 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		G	
according to IEC 204-2 acc. to IEC 750			

Power Electronics		
Product designation		Soft starter
Operating current		
• at 40 °C rated value	А	9
• at 50 °C rated value	А	8
• at 60 °C rated value	А	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 AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	2
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	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	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	%	-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	V	110 230
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	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
 for auxiliary and control current circuit 	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	
 using the front clamping point 	2x (16 10)
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 AWG conductors	conductor cross-see	ctions at					
 for auxiliary contacts 			2x (20 14)			
 for auxiliary contacts finely stranded with core end processing 			2x (20 16	2x (20 16)			
Ambient conditions		<u>.</u>					
Installation altitude a		evel	m	5 000	5 000		
Environmental categ	-						
	t 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 s mist), 1S2 (sand must not get inside the device 1M4			
• during operation acc. to IEC 60721				3K6 (no formation of ice, no condensation), 3C salt mist), 3S2 (sand must not get into the dev 3M6			
Ambient temperature)						
 during operation 	n		°C	-25 +60			
 during storage 			°C	-40 +80			
Derating temperature)		°C	40			
Protection class IP			_	IP20			
Certificates/ approva	als						
General Product					EMC	Declaration of Conformity	
	CSA		E	AC	RCM	EG-Konf.	
Declaration of Conformity	Test Certific- ates	other					
Miscellaneous	Type Test Certific- ates/Test Report	Miscellaneo	ous	Confirmation			
JL/CSA ratings							
Yielded mechanical AC motor	performance [hp] for	inree-phase					
• at 220/230 V							
	d circuit at 50 °C rat	ed value	hp	2			
— at standard circuit at 50 °C rated value		ΠÞ	2				
● at 460/480 V							

— at standard circuit at 50 °C rated value

5

hp

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

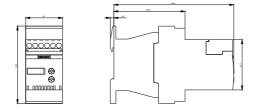
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3016-1BB14

Cax online generator

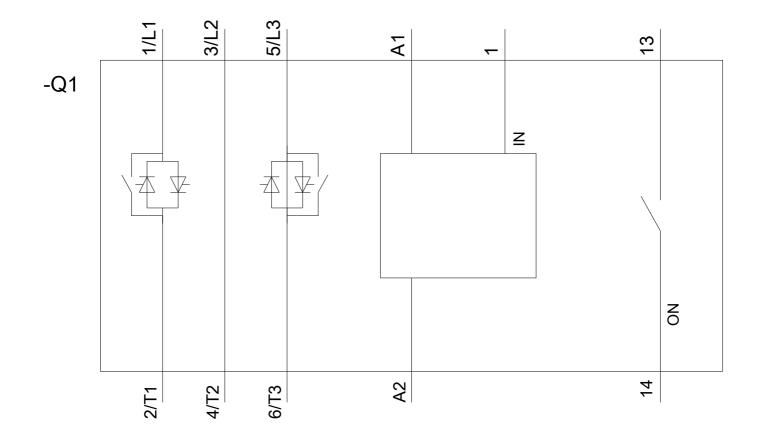
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-1BB14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3016-1BB14&lang=en







last modified:

09/25/2020