SIEMENS

Data sheet 3RW30 18-1BB14

SIRIUS soft starter S00 17.6 A, 7.5 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	Α	17.6
• at 50 °C rated value	Α	17
• at 60 °C rated value	Α	14
Mechanical power output for three-phase motors		
● at 230 V		
— at standard circuit at 40 °C rated value	W	4 000
● at 400 V		
— at standard circuit at 40 °C rated value	W	7 500
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	4
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 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			
 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	3	
● at 460/480 V			
 at standard circuit at 50 °C rated value 	hp	10	

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=3RW3018-1BB14

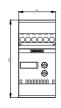
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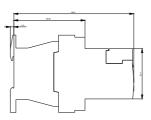
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3018-1BB14

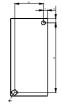
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

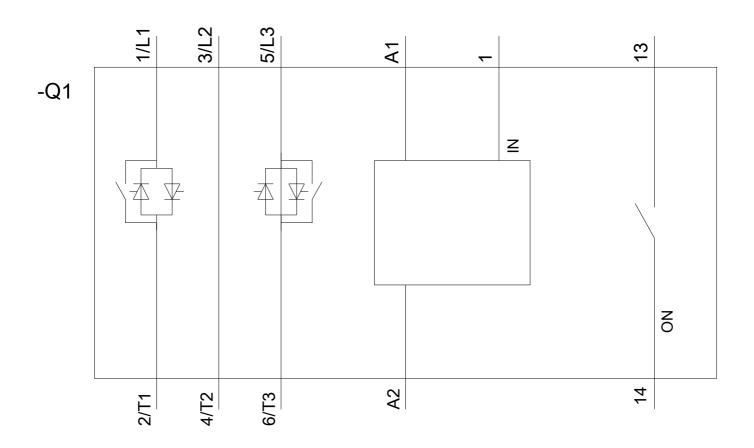
https://support.industry.siemens.com/cs/ww/en/ps/3RW3018-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3018-1BB14&lang=en









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