SIEMENS

3RW30 18-2BB14 Data sheet



SIRIUS SOFT STARTER, SIZE S00, 17.6A, 7.5KW/400V, 40 DEGREES, 200-480V AC, 110-230V AC/DC, SPRING-LOADED TERMINALS

General technical data	
product brandname	SIRIUS
 Product equipment Integrated bypass contact 	Yes
system	
 Product feature 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
Equipment marking acc. to DIN EN 61346-2	Q
Equipment marking 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	hp	3
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	%	-10
frequency		
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 [% of IM]	%	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 electronics		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1 rated value	Hz	50
		00

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	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 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	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 		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	
 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













Test	other		
Certificates			
Type Test	Miscellaneous	Environmental	Confirmation
Certificates/Test		Confirmations	
Report			

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
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=3RW3018-2BB14

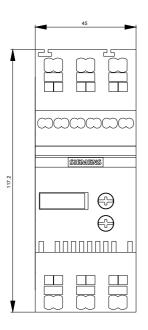
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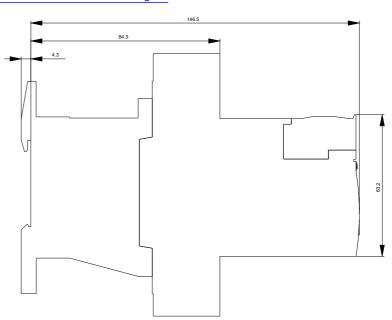
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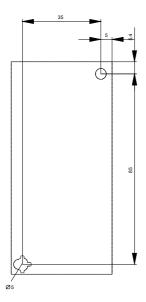
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

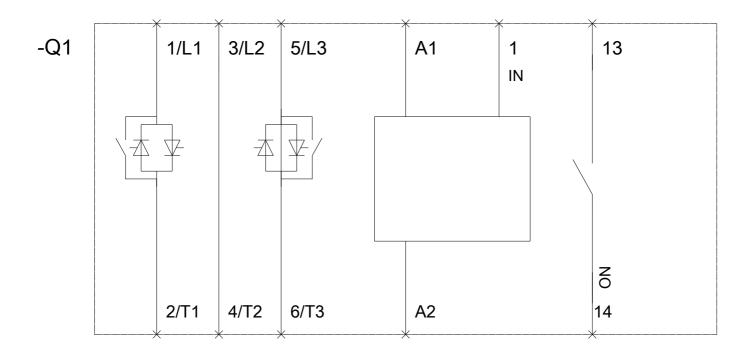
https://support.industry.siemens.com/cs/ww/en/ps/3RW3018-2BB14

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









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