SIEMENS

Data sheet

3RW30 28-1BB14



SIRIUS SOFT STARTER, SIZE S0, 38A, 18.5KW/400V, 40 DEGREES, 200-480V AC, 110-230V AC/DC, SCREW TERMINALS

General technical data				
product brandname	SIRIUS			
 Product equipment Integrated bypass contact 	Yes			
system				
-	Yes			
Product feature Thyristors				
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	А	38
• at 50 °C rated value	А	34
• at 60 °C rated value	А	31
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	11 000
● at 400 V		
— at standard circuit at 40 °C rated value	W	18 500
Yielded mechanical performance [hp] for three-phase	hp	10
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	19
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	%	-15
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
Control supply voltage 1 at DC	V	110 230
Relative negative tolerance of the control supply voltage at DC	%	-15
Relative positive tolerance of the control supply	%	10

voltage at DC

Display version for fault signal	-	red
Mechanical data		
Size of engine control device		S0
Width	mm	45
Height	mm	125
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 		1x 8, 2x (16 10)
Type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 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 during storage acc. to IEC 60721 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 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 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

ertificates/approv	vals				
General Produ	ct Approval			EMC	Declaration of Conformity
	CSA		EHC	C-Tick	EG-Konf.
Test Certificates	other				
Type Test	Environmental	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	10
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	25

Contact rating of auxiliary contacts according to UL

Confirmations

-urther information	
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=3RW3028-1BB14

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Certificates/Test

Report

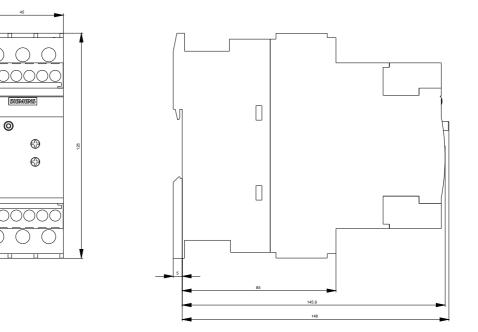
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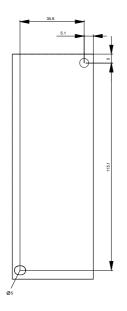
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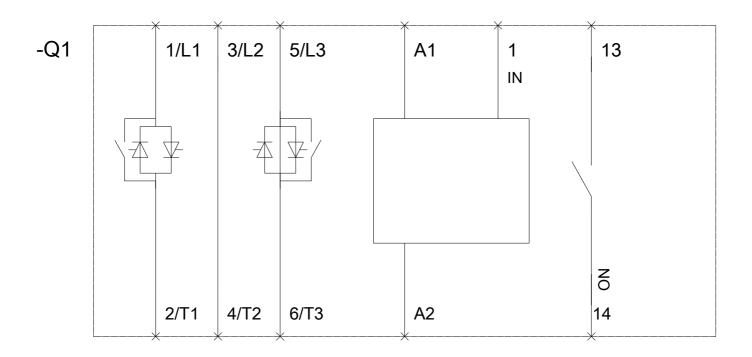
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3028-1BB14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3028-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3028-1BB14&lang=en







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