SIEMENS

Data sheet 3RW30 28-1BB04

SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^{\circ}$ C 200-480 V AC, 24 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 according to IEC 204-2 acc. to IEC 750		G

Product designation Operating current at 40 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value w 11 000 11 000 13 500 W 14 500 W 15 500 W 16 500 W 17 500 W 18 500 W 18 500 W 18 500 W 19 500 W 10 000 Relative negative tolerance of the operating frequency Prelative negative tolerance of the operating voltage at standard circuit rated value W 10 000 Relative negative tolerance of the operating voltage at standard circuit Relative negative tolerance of the operating voltage at standard circuit Relative negative tolerance of the operating voltage at standard circuit Relative negative tolerance of the operating voltage at standard circuit Relative negative tolerance of the operating voltage at standard circuit Minimum load [%] Control supply voltage frequency 1 rated value Prower loss [W] at operating current at 40 °C during operation typical Control supply voltage frequency 2 rated value Relative negative tolerance of the control supply voltage frequency Relative negative tolerance of the control supply voltage frequency Relative negative tolerance of the control supply voltage frequency Relative negative tolerance of the control supply voltage frequency Relative negative tolerance of the control supply voltage frequency Relative negative tolerance of the control supply voltage at AC at 50 Hz Relative negative tolerance of the control supply voltage frequency Relative negative tolerance of the control supply voltage at AC at 50 Hz Relative negative tolerance of the control supply voltage at AC at 50 Hz Relative negative tolerance of the control supply voltage at AC at 50 Hz Relative negative tolerance of the control supply Relative negative tolerance of the control supply voltage at AC at 50 Hz Relative negative tolerance of the control supply voltage at AC at	Power Electronics		
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voltage at AC at 50 Hz Relative positive tolerance of the control supply % 10 voltage at AC at 50 Hz			
voltage at AC at 50 Hz	voltage at AC at 50 Hz		
Relative negative tolerance of the control supply % -15		%	10
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 rated value	V	24
Relative negative tolerance of the control supply voltage at DC	%	-15
Relative positive tolerance of the control supply voltage at DC	%	10
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 		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	10
● at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	25

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=3RW3028-1BB04

Cax online generator

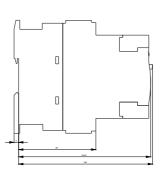
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3028-1BB04

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

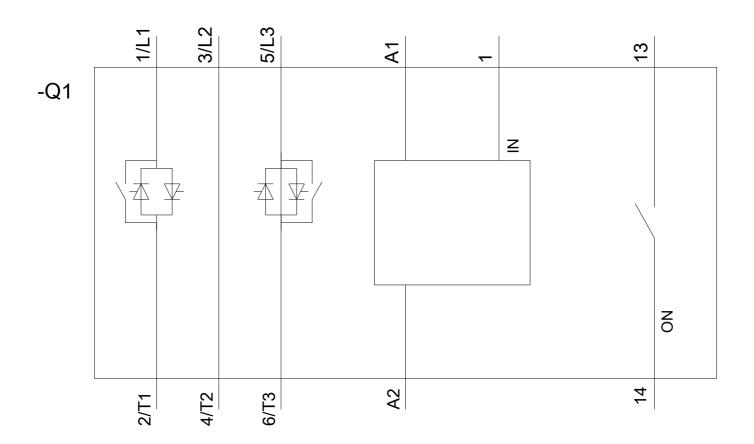
https://support.industry.siemens.com/cs/ww/en/ps/3RW3028-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3028-1BB04&lang=en









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