SIEMENS

Data sheet 3RW30 28-2BB04

SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 24 V AC/DC spring-type 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				

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 18 500 W 18 500 W 18 500 W 19 10 W 10 000 Relative negative tolerance of the operating frequency Operating frequency rated value Relative negative tolerance of the operating voltage at standard circuit rated value V 10 000 Relative negative tolerance of the operating voltage at standard circuit Relative positive 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 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 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 Relative negative t	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	150	
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 	1x 8, 2x (16 10)
Type of connectable conductor cross-sections for main contacts	
• solid	1 10 mm²
 finely stranded with core end processing 	1 6 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 8
• 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 		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
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=3RW3028-2BB04

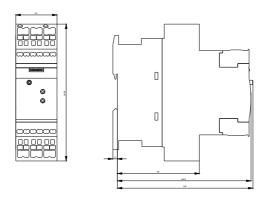
Cax online generator

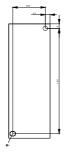
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3028-2BB04

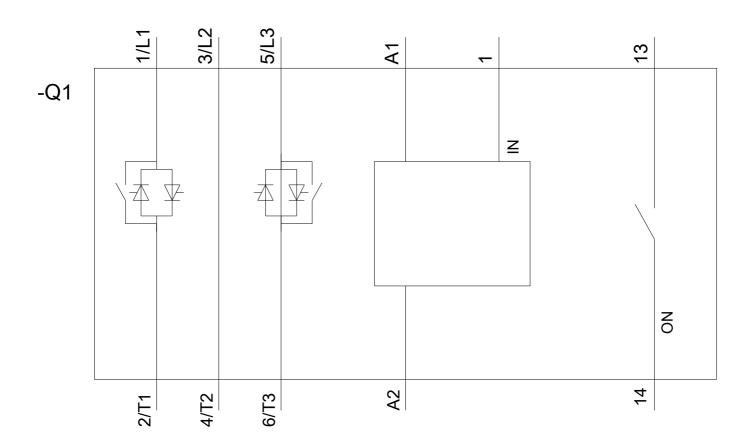
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW3028-2BB04

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







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