SIEMENS

Data sheet 3RW30 27-1BB04

SIRIUS soft starter S0 32 A, 15 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		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 800 °C rated value • at 800 °C rated value • at 400 °C — at standard circuit at 40 °C rated value • at 400 °C — at standard circuit at 40 °C rated value • at 400 °C — at standard circuit at 40 °C rated value • at 400 °C — at standard circuit at 50 °C rated value Operating frequency rated value Operating frequency rated value Operating frequency rated value Operating voltage at standard circuit rated value V Relative negative tolerance of the operating frequency Operating voltage at standard circuit rated value Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage tatandard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Power loss [W] at operating current at 40 °C during operation typical Control supply voltage frequency 1 rated value Power loss [W] at operating current at 40 °C during operation typical Control supply voltage frequency 2 rated value Relative positive tolerance of the control supply voltage frequency Control supply voltage frequency 2 rated value • at 60 Hz rated value • at	Power Electronics		
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	-	%	-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	7.5
● at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	20

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=3RW3027-1BB04

Cax online generator

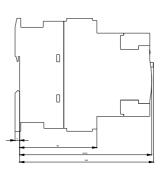
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3027-1BB04

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

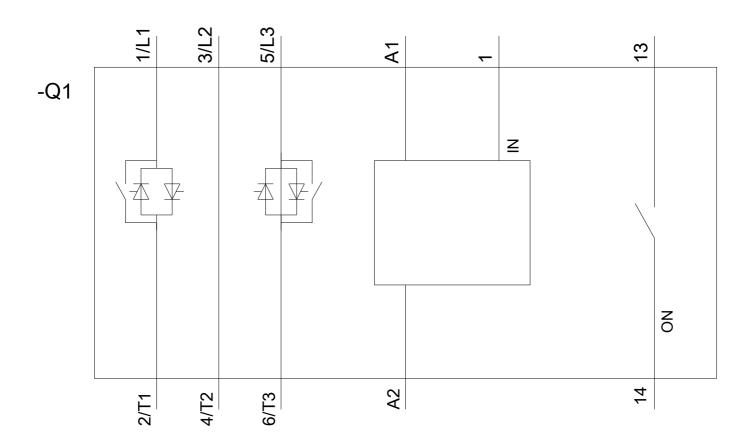
https://support.industry.siemens.com/cs/ww/en/ps/3RW3027-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3027-1BB04&lang=en









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