SIEMENS

Data sheet 3RW40 76-6BB44



SIRIUS SOFT STARTER, S12, 432 A, 250 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, SCREW TERMINALS

General technical data:					
product brand name		SIRIUS			
Product feature					
 integrated bypass contact system 		Yes			
Thyristors		Yes			
Product function					
 Intrinsic device protection 		Yes			
 motor overload protection 		Yes			
 Evaluation of thermistor motor protection 		No			
External reset		Yes			
Adjustable current limitation		Yes			
• 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 starters for standard applications		
Operating current				
• at 40 °C Rated value	Α	432		
• at 50 °C Rated value	Α	385		
• at 60 °C Rated value	Α	335		
Mechanical power output for three-phase motors				
● at 230 V				

- at standard circuit at 40 °C Rated value • at 400 V — at standard circuit at 40 °C Rated value V 250 000 yleided mechanical performance (hp) for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value Operating frequency Rated value Relative negative tolerance of the operating frequency Relative negative tolerance of the operating frequency Relative positive tolerance of the operating voltage at standard circuit Rated value Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Minimum load in % of I_M Adjustable motor current for motor overload protection minimum rated value Continuous operating current (% of le) at 40 °C Mortinum supply voltage frequency (% of le) at 40 °C Control supply voltage frequency 1 Rated value Hz Control supply voltage frequency 2 Rated value Hz Control supply voltage frequency 2 Rated value Relative positive tolerance of the control supply voltage frequency Control supply voltage frequency 2 Rated value AC **a 150 Hz Rated value **			
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Size of engine control deviceS12Widthmm160Heightmm230Depthmm278	Display version for fault signal		red
Width mm 160 Height mm 230 Depth mm 278			
Height mm 230 Depth mm 278			
Depth mm 278	Width	mm	
		mm	230
Mounting type screw fixing	•	mm	
initial in the state of the sta	Mounting type		screw fixing

mounting position		With additional fan: With vertical mounting surface +/- 90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
Required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
• downwards	mm	75
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	300
Number of poles for main current circuit		3

Connections/ Terminals:	
Type of electrical connection	
for main current circuit	busbar connection
 for auxiliary and control current circuit 	screw-type terminals
Number of NC contacts for auxiliary contacts	0
Number of NO contacts for auxiliary contacts	2
Number of CO contacts for auxiliary contacts	1
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point	
 finely stranded with core end processing 	70 240 mm²
 finely stranded without core end processing 	70 240 mm²
• stranded	95 300 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point	
 finely stranded with core end processing 	120 185 mm²
 finely stranded without core end processing 	120 185 mm²
• stranded	120 240 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points	
 finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²
• stranded	max. 2x 70 mm², max. 2x 240 mm²
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal	
 using the back clamping point 	250 500 kcmil
 using the front clamping point 	3/0 600 kcmil
 using both clamping points 	min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-section for DIN cable lug for main contacts	

50 240 mm²
70 240 mm²
2x (0.5 2.5 mm²)
2x (0.5 1.5 mm²)
2/0 500 kcmil
2x (20 14)
2x (20 16)

Ambient conditions:				
Ambient temperature				
during operation	°C	-25 + 60		
during storage	°C	-40 +80		
Derating temperature	°C	40		
Protection class IP		IP00		

Certificates/ approvals:

General Product Approval	EMC	For use in
		hazardous
		locations













Test Certificates	Shipping Ap	pproval		other	
Special Test Certificate	JÅ		Lloyd's Register	Declaration of Conformity	Environmental Confirmations
	DNV	GL	LRS		

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 220/230 V		
— at standard circuit at 50 °C Rated value	metric hp	150
● at 460/480 V		

— at standard circuit at 50 °C Rated value	metric hp	300
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

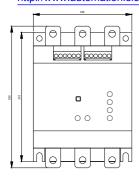
Cax online generator

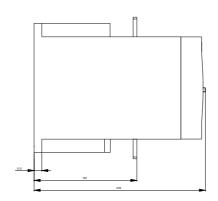
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40766BB44

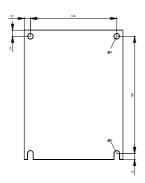
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

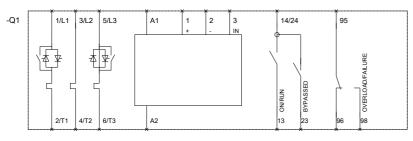
https://support.industry.siemens.com/cs/ww/en/ps/3RW40766BB44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW40766BB44&lang=en









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