SIEMENS

Data sheet 3RW40 73-2BB44



SIRIUS SOFT STARTER, S12, 230 A, 132 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, CAGE CLAMP 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 according to IEC 204-2 acc. to IEC 750		G		

Power Electronics:			
Product designation		soft starters for standard applications	
Operating current			
● at 40 °C Rated value	Α	230	
• at 50 °C Rated value	Α	205	
• at 60 °C Rated value	Α	180	
Mechanical power output for three-phase motors			
● at 230 V			

 — at standard circuit at 40 °C Rated value 	W	75 000
● at 400 V		
 at standard circuit at 40 °C Rated value 	W	132 000
yielded mechanical performance [hp] for three-phase	metric	60
AC motor at 200/208 V at standard circuit at 50 °C	hp	
Rated value		
Operating frequency Rated value	Hz	50 60
Relative negative tolerance of the operating frequency	%	-10
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit Rated value	V	200 460
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload	Α	80
protection minimum rated value		
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	90
operation typical		
Control electronics:		
Type of voltage of the control supply voltage		AC
Control supply voltage frequency 1 Rated value	Hz	50
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value	Hz Hz	50 60
Control supply voltage frequency 2 Rated value	Hz	60
Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply	Hz	60
Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency	Hz %	60 -10
Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply	Hz %	60 -10
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Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC	Hz %	60 -10 10
Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value	Hz %	60 -10 10 230
Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply	Hz % % V V	60 -10 10 230 230
Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply voltage with AC at 60 Hz	Hz % % V V %	60 -10 10 230 230 -15
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Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply voltage with AC at 60 Hz Display version for fault signal Mechanical data: Size of engine control device Width	Hz % % V V %	60 -10 10 230 230 -15 10 red \$12 160
Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply voltage with AC at 60 Hz Display version for fault signal Mechanical data: Size of engine control device Width Height	Hz % % V V % mm mm	60 -10 10 230 230 -15 10 red \$12 160 230

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 	spring-loaded 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 (0.25 1.5 mm²)
2x (0.25 1.5 mm²)
2/0 500 kcmil
2x (24 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	Shipping Ap	proval		other	
Certificates					
Special Test Certificate	J Å	[GL®]	Lloyd's Register	Environmental Confirmations	Declaration of Conformity
	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	75		
	hp			
● at 460/480 V				
 — at standard circuit at 50 °C Rated value 	metric	150		
	hp			
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

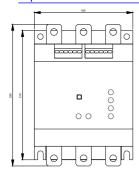
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

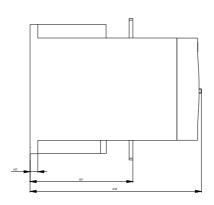
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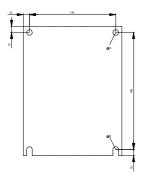
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40732BB44

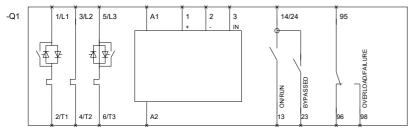
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40732BB44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40732BB44&lang=en









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