SIEMENS

Data sheet

3RW44 36-2BC34



SIRIUS SOFT STARTER, VALUES WITH 460 V, 50 DEG., STANDARD: 145A, 100HP, INSIDE-DELTA CIRCUIT 3: 251A, 200HP, 200-460 V AC, 115 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 		Yes		
• External reset		Yes		
 Adjustable current limitation 		Yes		
• inside-delta circuit		Yes		
Product component Motor brake output		Yes		
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:				
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Product designation		soft starters for high feature applications
Operating current		
• at 40 °C Rated value	А	162
• at 50 °C Rated value	А	145
• at 60 °C Rated value	А	125
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	А	281

	٨	054
• at 50 °C Rated value	A	251
• at 60 °C Rated value	A	217
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C Rated value	W	45 000
— at 3-phase root switching at 40 °C Rated value	W	90 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	90 000
— at 3-phase root switching at 40 °C Rated value	W	160 000
yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value	metric hp	40
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
Operating voltage at 3-phase root switching Rated value	V	200 460
Relative negative tolerance of the operating voltage at 3-phase root switching	%	-15
Relative positive tolerance of the operating voltage at 3-phase root switching	%	10
Minimum load in % of I_M	%	8
Adjustable motor current for motor overload protection minimum rated value	A	32
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	95
Control electronics:		
Type of voltage of the control supply voltage		AC
Control supply voltage frequency 1 Rated value	Hz	50
Control supply voltage frequency 2 Rated value	Hz	60
Relative negative tolerance of the control supply voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 with AC		
● at 50 Hz Rated value	V	115

• at 60 Hz Rated value	V	115
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	10
Display version for fault signal		Display

Mechanical data:		
Width	mm	170
Height	mm	200
Depth	mm	270
Mounting type	_	screw fixing
mounting position		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
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	500
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	3	
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 	16 70 mm²	
 finely stranded without core end processing 	16 70 mm²	
• stranded	16 70 mm²	
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 	16 70 mm²	
 finely stranded without core end processing 	16 70 mm²	
• stranded	16 70 mm²	
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		

 finely stranded with core end processing 		max. 1x 50 mm ² , 1x 70 mm ²
 finely stranded without core end processing 		max. 1x 50 mm ² , 1x 70 mm ²
• stranded		max. 2x 70 mm ²
Type of connectable conductor cross-section for		
AWG conductors for main contacts for box terminal		
 using the back clamping point 		6 2/0
 using the front clamping point 		6 2/0
 using both clamping points 		max. 2x 1/0
Type of connectable conductor cross-section for DIN		
cable lug for main contacts		
 finely stranded 		16 95 mm²
• stranded		25 120 mm²
Type of connectable conductor cross-section for		
auxiliary contacts		
• solid		2x (0.25 1.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)
Type of connectable conductor cross-section for		
AWG conductors		
 for main contacts 		4 250 kcmil
 for auxiliary contacts 		2x (24 16)
Ambient conditions:		
Ambient temperature		
 during operation 	°C	60
• during storage	°C	-25 +80
Derating temperature	°C	40
Protection class IP		IP00
Certificates/ approvals:		

General Produc	ct Approval			EMC	Declaration of Conformity
	CSA		EHC	С-тіск	EG-Konf.
Test Certificate	S	Shipping Ap	proval		
Special Test	Type Test	LACAN BURE	AND VER	¥ &	
Certificate	Certificates/Test Report	* 0, ** 0		Ψ Φ	GL
		ABS		DNV	GL

Shipping App	proval	other	
Lloyd's Register		Environmental Confirmations	
LRS	PRS		

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase AC motor		
● at 200/208 V		
— at 3-phase root switching at 50 °C Rated value	metric hp	75
● at 220/230 V		
— at standard circuit at 50 °C Rated value	metric hp	50
— at 3-phase root switching at 50 °C Rated value	metric hp	100
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	100
— at 3-phase root switching at 50 °C Rated value	metric hp	200
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

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

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