SIEMENS

Data sheet

3RW44 43-2BC34



SIRIUS SOFT STARTER, VALUES WITH 460 V, 50 DEG., STANDARD: 180A, 125HP, INSIDE-DELTA CIRCUIT 3: 312A, 250HP, 200-460 V AC, 115 V AC, CAGE CLAMP TERMINALS

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		

Product designation		soft starters for high feature applications
Operating current		
• at 40 °C Rated value	А	203
• at 50 °C Rated value	А	180
• at 60 °C Rated value	А	156
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	А	352

● at 50 °C Rated value	А	312
	A	270
• at 60 °C Rated value	A	270
Mechanical power output for three-phase motors		
• at 230 V	14/	55.000
— at standard circuit at 40 °C Rated value	W	55 000
— at 3-phase root switching at 40 °C Rated value	W	110 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	110 000
— at 3-phase root switching at 40 °C Rated value	W	200 000
yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value	metric hp	50
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	40
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	89
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	%	-10
voltage frequency	0/	
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	210
Height	mm	230
Depth	mm	298
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 connectior	1
 for auxiliary and control current circuit 	spring-loaded tern	ninals
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 	70 240 mm ²	
 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 mm ² , max. 2x 240 mm ²
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		
 finely stranded 		50 240 mm²
• stranded		70 240 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 		2/0 500 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	t Approval			EMC	Declaration of Conformity
	CSA		EHC	C-TICK	EG-Konf.
Test Certificates	3	Shipping Ap	oroval		
Type Test Certificates/Test Report	Special Test Certificate	ABS	BUREAU VERITAS	DNV DNV	GL

Shipping App	oroval	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	100
● at 220/230 V		
— at standard circuit at 50 °C Rated value	metric hp	60
— at 3-phase root switching at 50 °C Rated value	metric hp	125
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	125
— at 3-phase root switching at 50 °C Rated value	metric hp	250
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

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