SIEMENS

Data sheet

3RW44 43-6BC44

SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 203A, 110KW, INSIDE-DELTA CIRCUIT 3: 352A, 200KW, 200-460 V AC, 230 V AC, SCREW 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 according to IEC 204-2 acc. to IEC 750	G

Power Electronics:

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 inside-		
delta circuit		
• at 40 °C rated value	А	352
• at 50 °C rated value	А	312
• at 60 °C rated value	А	270
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	55 000
— at inside-delta circuit at 40 °C rated value	W	110 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	110 000
— at inside-delta circuit at 40 °C rated value	W	200 000
Yielded mechanical performance [hp] for three-phase	hp	50
AC motor at 200/208 V at standard circuit at 50 °C		
rated value		50
Operating frequency rated value	Hz %	50 60 -10
Relative negative tolerance of the operating frequency	70	-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	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at	%	10
standard circuit	,	
Operating voltage at inside-delta circuit rated value	V	200 460
Relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
Relative positive tolerance of the operating voltage at inside-delta circuit	%	10
Minimum load [% of IM]	%	8
Adjustable motor current for motor overload	А	40
protection minimum rated value		
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] 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 voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 at AC		
• at 50 Hz rated value	V	230
• at 60 Hz rated value	V	230
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage at 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		with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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
Wire 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 	screw-type 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-sections 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-sections 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 stranded		120 240 mm²
Type of connectable conductor cross-sections 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-sections at		
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-sections for DIN cable lug for main contacts		
 finely stranded 		50 240 mm²
• stranded		70 240 mm²
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 main contacts 		2/0 500 kcmil
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 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 Prod	uct Approval			EMC	Declaration of Conformity
	CSA		EHC	Стіск	EG-Konf.
Test Certifica	tes	Shipping Ap	proval		

Typprüfbescheinigu ng/Werkszeugnis	spezielle Prüfbescheinigunge <u>n</u>	ALCAN BURE		<u>ĴŠ</u> DNV	GL
		ABS	BUREAU VERITAS	DNV	GL
Chipping Approx	(a)	othor			



UL/CSA ratings:		
Yielded mechanical performance [hp] for three-phase		
AC motor		
● at 200/208 V		
— at inside-delta circuit at 50 °C rated value	hp	100
● at 220/230 V		
— at standard circuit at 50 °C rated value	hp	60
— at inside-delta circuit at 50 °C rated value	hp	125
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	125
— at inside-delta circuit at 50 °C rated value	hp	250
Contact rating of auxiliary contacts according to UL		B300 / R300

urther information

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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/CAX order/default.aspx?lang=en&mlfb=3RW44436BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW44436BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW44436BC44&lang=en







