SIEMENS

Data sheet 3RW44 23-3BC44

SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 36A, 18,5KW, INSIDE-DELTA CIRCUIT 3: 62A, 30KW, 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		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	A	36
• at 50 °C Rated value	A	32
• at 60 °C Rated value	A	29
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	A	62

• at 50 °C Rated value	A	55
• at 60 °C Rated value	A	50
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C Rated value	W	7 500
— at 3-phase root switching at 40 °C Rated value	W	18 500
• at 400 V		
— at standard circuit at 40 °C Rated value	W	18 500
— at 3-phase root switching at 40 °C Rated value	W	30 000
yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value	metric hp	10
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	7
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	10
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	230

• at 60 Hz Rated value	V	230
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	192
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		box terminals
• 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		
• solid		2.5 ... 16 mm²
• finely stranded with core end processing		2.5 ... 35 mm²
• finely stranded without core end processing		4 ... 50 mm²
• stranded		4 ... 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• solid		2,5 ... 16 mm²
• finely stranded with core end processing		2.5 ... 50 mm²
• finely stranded without core end processing		10 ... 50 mm²
• stranded		10 ... 70 mm²

Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
• solid		2x (2.5 ... 16 mm²)
• finely stranded with core end processing		2x (2.5 ... 35 mm²)
• finely stranded without core end processing		2x (4 ... 35 mm²)
• stranded		2x (4 ... 50 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
• using the back clamping point		10 ... 2/0
• using the front clamping point		10 ... 2/0
• using both clamping points		2x (10 ... 1/0)
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 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 Product Approval				EMC	Declaration of Conformity
CCC	CSA	UL		C-TICK	EG-Konf.

Test Certificates		Shipping Approval			
Special Test Certificate	Type Test Certificates/Test Report	ABS	BUREAU VERITAS	DNV	GL

Shipping Approval		other
LRS	PRS	Environmental Confirmations

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	15
• **at 220/230 V**		
— at standard circuit at 50 °C Rated value	metric hp	10
— at 3-phase root switching at 50 °C Rated value	metric hp	20
• **at 460/480 V**		
— at standard circuit at 50 °C Rated value	metric hp	20
— at 3-phase root switching at 50 °C Rated value	metric hp	40
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Further information

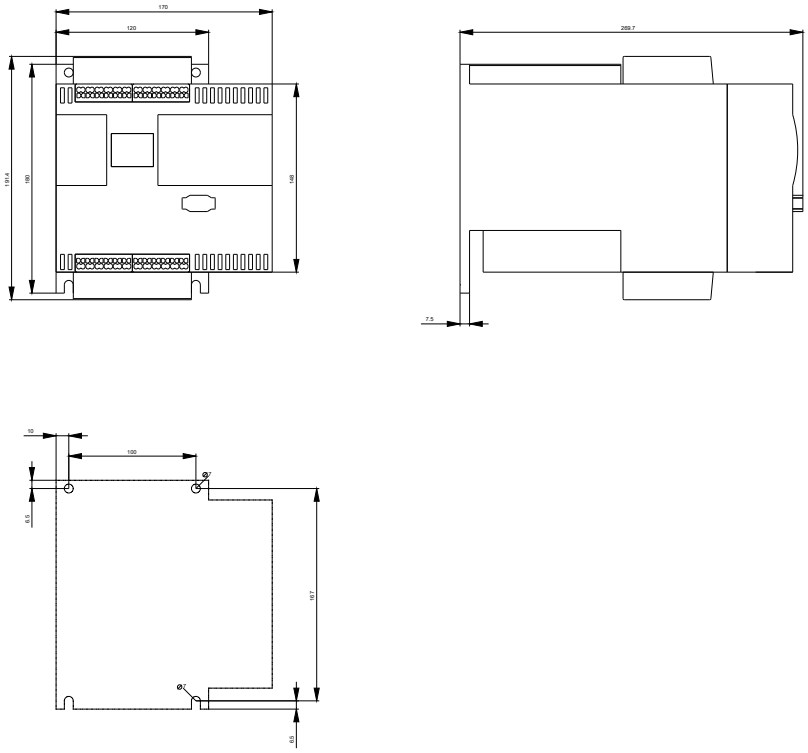
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

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=3RW44233BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RW44233BC44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW44233BC44&lang=en



last modified: 15.01.2015