SIEMENS

Product data sheet 3RW4423-3BC44



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 details:		
Product brand name		SIRIUS
Product equipment		
• integrated bridging contact system		Yes
• thyristors		Yes
Product function		
• intrinsic device protection		Yes
• motor overload protection		Yes
• evaluation of thermal resistor motor protection		Yes
• reset external		Yes
• adjustable current limitation		Yes
• inside-delta circuit		Yes
Product component / outlet for enine brake		Yes
Item designation		
• according to DIN EN 61346-2		Q
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		G

Power Electronics:		
product designation		soft starters for high feature applications
Operating current		

subject to modifications
© Copyright Siemens AG 2011

• at 40 °C / rated value	A	36
• at 50 °C / rated value	A	32
• at 60 °C / rated value	A	29
• for three-phase servomotors / 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
Emitted mechanical power / for three-phase servomotors		
• at 230 V / at standard switching / at 40 °C		
• rated value	W	7,500
• at 400 V / at standard switching / at 40 °C		
• rated value	W	18,500
• at 230 V / at 3-phase root switching / at 40 °C		
• rated value	W	18,500
• at 400 V / at 3-phase root switching / at 40 °C		
• rated value	W	30,000
yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated v alue	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 / with standard circuit / rated value	V	200 … 460
Relative negative tolerance / of the operating voltage / with standard circuit	%	-15
Relative positive tolerance / of the operating voltage / with standard circuit	%	10
Operating voltage / at 3-phase root switching / rated value	V	200 … 460
Relative negative tolerance / of the operating voltage / with inside-delta circuit	%	-15
Relative positive tolerance / of the operating voltage / with inside-delta circuit	%	10
Minimum load in % of I_M	%	8
Adjustable rated current / of the motor / for motor overload protection / minimum	A	7
Continuous operating current in % of I_e / at 40°C	%	115
Active power loss / at operating current / at 40°C / during operating phase / typical	W	10

Control electronics:		
Type of voltage / of the controlled supply voltage		AC

© Copyright Siemens AG 2011

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 50 Hz / for AC	V	230
• at 60 Hz / for AC	V	230
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-15
Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC	%	10
Type of display / for fault signal		Display

Mechanical design:

Width	mm	170
Height	mm	192
Depth	mm	270
Type of mounting		screw fixing
Built in orientation		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
Distance, to be maintained, to the ranks assembly		
• upwards	mm	100
• sidewards	mm	5
• downwards	mm	75
Altitude of installation site / at a height over sea level	m	5,000
Cable length / maximum	m	500
Number of poles / for main current circuit		3

Electrical connections:

Design of the 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 change-over switches / for auxiliary contacts		1
Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point		
• solid		2.5 ... 16 mm2
• finel y stranded / with conductor end processing		2.5 ... 35 mm2

© Copyright Siemens AG 2011

• finel y stranded / without conductor end processing		4 ... 50 mm2
• stran ded		4 ... 70 mm2
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point		
• solid		2,5 ... 16 mm2
• finely stranded / with conductor end processing		2.5 ... 50 mm2
• withou t conductor final cutting / without conductor end processing		10 ... 50 mm2
• strand ed		10 ... 70 mm2
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points		
• solid		2x (2.5 ... 16 mm2)
• finely strande d / with conductor end processing		2x (2.5 ... 35 mm2)
• without conduc tor final cutting / without conductor end processing		2x (4 ... 35 mm2)
• stranded		2x (4 ... 50 mm2)
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal		
• when using the back cl amping point		10 ... 2/0
• when using the front c lamping point		10 ... 2/0
• when using both clampi ng points		2x (10 ... 1/0)
Type of the connectable conductor cross-section		
• for auxiliary contacts		
• solid		2x (0.25 ... 1.5 mm2)
• finely stranded / with conductor end processing		2x (0.25 ... 1.5 mm2)
• for AWG conductors / for auxiliary contacts		2x (24 ... 16)

Ambient conditions:

Ambient temperature		
• during operating	/ °C	60
• during storage	°C	-25 … 80
Derating temperature	°C	40
Protection class IP		IP00

Certificates/approvals:

© Copyright Siemens AG 2011

General Product Approval				Test Certificates
CQC	CSA	ROSTEST	UL	Manufacturer
Shipping Approval				**other**
BUREAU VERITAS	DNV	GL	PRS	Manufacturer

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel cage motors		
• at 220/230 V / at standard circuit		
• at 50 °C / rated value	hp	10
• at 460/480 V / at standard circuit		
• at 50 °C / rated value	hp	20
• at 200/208 V / at inside-delta circuit / at 50 °C / rated value	hp	15
• at 220/230 V / at inside-delta circuit / at 50 °C / rated value	hp	20
• at 460/480 V / at inside-delta circuit / at 50 °C / rated value	hp	40

Further information:

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

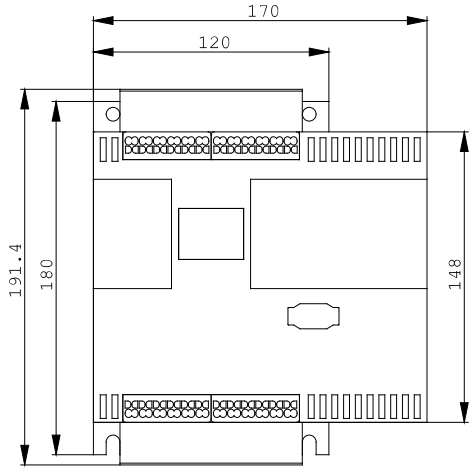
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

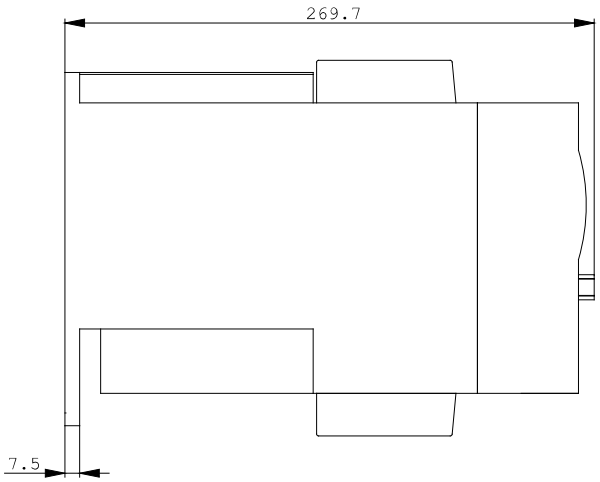
CAx-Online-Generator
http://www.siemens.com/cax

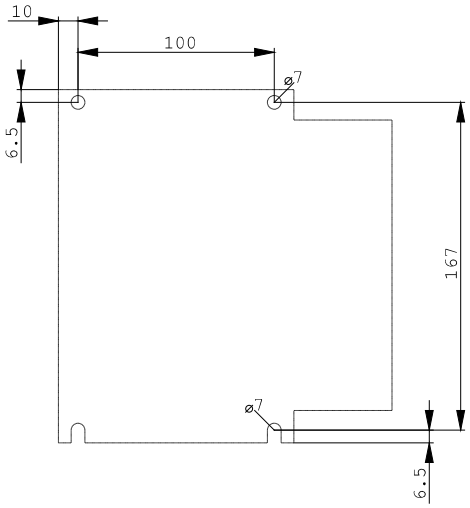
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RW4423-3BC44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4423-3BC44

© Copyright Siemens AG 2011







last change: Aug 22, 2011

© Copyright Siemens AG 2011