## **SIEMENS**

Product data sheet 3RW4434-2BC44



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 113A, 55KW, INSIDE-DELTA CIRCUIT 3: 196A, 110KW, 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
<ul> <li>evaluation of thermal resistor motor protection</li> </ul>		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
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		G

**Power Electronics:** 

product designation
Operating current

soft starters for high feature applications

Α	113
Α	100
Α	88
Α	196
Α	173
Α	152
W	30,000
W	55,000
W	55,000
W	110,000
hp	30
Hz	50 60
%	-10
%	10
V	200 460
%	-15
%	10
V	200 460
%	-15
%	10
%	8
	22
A 	
A _ _ _	115
	A A A A A W W W hp  Hz % % V % V % %

Control electronics:	
Type of voltage / of the controlled 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 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	200
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	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 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	
• finely stranded / with conductor end processing	16 70 mm2
• finely stranded / without conductor end processing	16 70 mm2
• stranded	16 70 mm2

Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point	
• finely stranded / with conductor end processing	16 70 mm2
<ul> <li>without conductor final cutting / without conductor end processing</li> </ul>	16 70 mm2
• stranded	16 70 mm2
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points	
• finely stranded / with conductor end processing	max. 1x 50 mm2, 1x 70 mm2
<ul> <li>without conductor final cutting / without conductor end processing</li> </ul>	max. 1x 50 mm2, 1x 70 mm2
• stranded	max. 2x 70 mm2
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal	
when using the back cl amping point	6 2/0
when using the front c lamping point	6 2/0
when using both clampi ng points	max. 2x 1/0
Type of the connectable conductor cross-section / for DIN cable lug / for main contacts	
• finely stranded	16 95 mm2
• stranded	25 120 mm2
Type of the connectable conductor cross-section	
• for AWG conductors / for main contacts	4 250 kcmil
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	

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

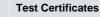
## Certificates/approvals:

## **General Product Approval**





**ROSTEST** 



Manufacturer



**Shipping Approval** 







GI

STATION.

other 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 v alue	hp	30
• at 460/480 V / at standard circuit		
• at 50 °C / rated v alue	hp	75
<ul> <li>at 200/208 V / at inside-delta circuit / at 50 °C / rat ed value</li> </ul>	hp	50
<ul> <li>at 220/230 V / at inside-delta circuit / at 50 °C / rat ed value</li> </ul>	hp	60
• at 460/480 V / at inside-delta circuit / at 50 °C / rat	hp	125

## **Further information:**

ed value

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** 

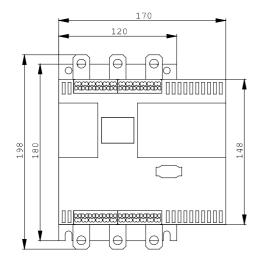
http://www.siemens.com/cax

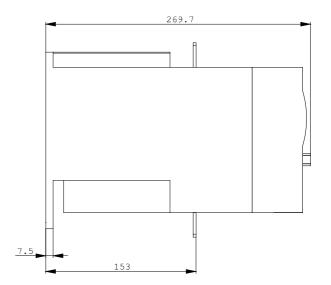
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

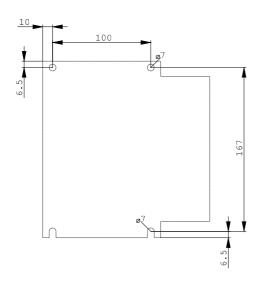
http://support.automation.siemens.com/WW/view/en/3RW4434-2BC44/all

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$ 

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RW4434-2BC44}}$ 







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