# **SIEMENS**

Data sheet 3RW44 47-6BC44



SIRIUS soft starter Values at 400 V, 40 °C Standard: 432 A, 250 kW Inside-delta: 748 A, 400 kW 200-460 V AC, 230 V AC Screw terminals

General technical data	
Product brand name	SIRIUS
Product feature	
<ul> <li>integrated bypass contact system</li> </ul>	Yes
Thyristors	Yes
Product function	
<ul> <li>Intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	Yes
External reset	Yes
Adjustable current limitation	Yes
• inside-delta circuit	Yes
Product component Motor brake output	Yes
Reference identifier acc. to DIN EN 61346-2	Q
Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G

Product designation

Soft starter

Α	432
Α	385
Α	335
Α	748
Α	667
Α	580
W	132 000
W	250 000
W	250 000
W	400 000
hp	125
Hz	50 60
%	-10
	10
	200 460
%	-15
%	10
V	200 460
%	-15
%	10
%	8
Α	86
%	115
W	232
	AC
Hz	50
Hz	60
	A A A A A A W W W W hp Hz % % V % % V % W W Hz

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
<ul><li>downwards</li></ul>	mm	75
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
<ul> <li>for auxiliary and control current circuit</li> </ul>	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	
<ul> <li>finely stranded with core end processing</li> </ul>	70 240 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	70 240 mm²
• stranded	95 300 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	
<ul> <li>finely stranded with core end processing</li> </ul>	120 185 mm²

<ul> <li>finely stranded without core end processing</li> </ul>	120 185 mm²
• stranded	120 240 mm²
Type of connectable conductor cross-sections for	
main contacts for box terminal using both clamping	
points	
<ul> <li>finely stranded with core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	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	
<ul><li>using the back clamping point</li></ul>	250 500 kcmil
<ul> <li>using the front clamping point</li> </ul>	3/0 600 kcmil
<ul><li>using both clamping points</li></ul>	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)
<ul> <li>finely stranded with core end processing</li> </ul>	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	2x (20 16)
end processing	

Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category		
● during transport acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during operation acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient temperature		
during operation	°C	60
during storage	°C	-25 +80
Derating temperature	°C	40
Protection class IP		IP00

## **General Product Approval**

**EMC** 

**Declaration of** Conformity













### **Test Certificates**

### **Shipping Approval**

Type Test Certificates/Test Report

Special Test Certificate









### other

Confirmation

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	200
● at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	150
— at inside-delta circuit at 50 °C rated value	hp	250
● at 460/480 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	300
— at inside-delta circuit at 50 °C rated value	hp	600
Contact rating of auxiliary contacts according to UL		B300 / R300

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

Information- and Downloadcenter (Catalogs, Brochures,...)

### Industry Mall (Online ordering system)

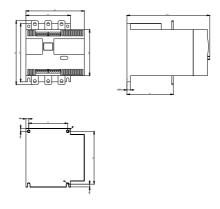
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4447-6BC44

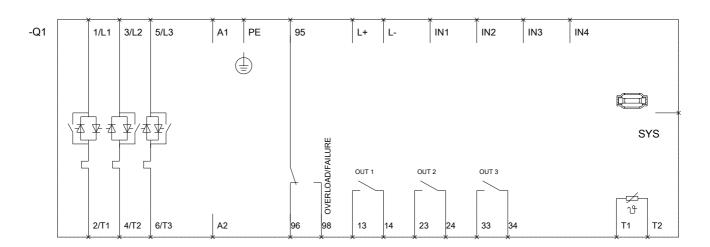
#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4447-6BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4447-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4447-6BC44&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4447-6BC44&lang=en</a>





last modified: 09/21/2018