# **SIEMENS**

Data sheet 3RW4447-6BC44



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 !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5547-6HA14<<

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	
<ul> <li>adjustable current limitation</li> </ul>		Yes	
• inside-delta circuit		Yes	
product component motor brake output		Yes	
insulation voltage rated value	V	690	
degree of pollution		3, acc. to IEC 60947-4-2	
reference code according to EN 61346-2		Q	
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G	
Power Electronics			
product designation		Soft starter	
operational current			
<ul> <li>at 40 °C rated value</li> </ul>	Α	432	
<ul> <li>at 50 °C rated value</li> </ul>	Α	385	
at 60 °C rated value	А	335	
operational current for 3-phase motors at inside-delta circuit			
<ul> <li>at 40 °C rated value</li> </ul>	А	748	
<ul> <li>at 50 °C rated value</li> </ul>	А	667	
at 60 °C rated value	А	580	
yielded mechanical performance for 3-phase motors			
• at 230 V			
— at standard circuit at 40 °C rated value	kW	132	
— at inside-delta circuit at 40 °C rated value	kW	250	
• at 400 V			
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	250	
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	kW	400	
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	125	
operating frequency rated value	Hz	50 60	
relative negative tolerance of the operating frequency	%	-10	
relative positive tolerance of the operating frequency	%	10	

		200 (00
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 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 [%]	%	8
adjustable motor current for motor overload protection minimum rated value	Α	86
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	232
Control circuit/ Control		
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 50 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
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
fastening method		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		mounting surface +/- 22.5° tiltable to the front and back
required spacing with side-by-side mounting  • upwards	mm	mounting surface +/- 22.5° tiltable to the front and back
	mm mm	
• upwards		100
<ul><li>upwards</li><li>at the side</li></ul>	mm	100 5
<ul><li>upwards</li><li>at the side</li><li>downwards</li></ul>	mm mm	100 5 75
<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> wire length maximum	mm mm	100 5 75 500
upwards at the side downwards wire length maximum number of poles for main current circuit	mm mm	100 5 75 500
upwards     at the side     downwards  wire length maximum number of poles for main current circuit  Connections/ Terminals	mm mm	100 5 75 500
upwards at the side downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	100 5 75 500 3
upwards     at the side     downwards  wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection     for main current circuit	mm mm	100 5 75 500 3 busbar connection
upwards at the side downwards wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection for main current circuit for auxiliary and control circuit	mm mm	100 5 75 500 3 busbar connection screw-type terminals
upwards at the side downwards wire length maximum number of poles for main current circuit  Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts	mm mm	100 5 75 500 3 busbar connection screw-type terminals 0
upwards at the side downwards wire length maximum number of poles for main current circuit  Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	mm mm	100 5 75 500 3 busbar connection screw-type terminals 0 3
upwards at the side downwards wire length maximum number of poles for main current circuit  Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts type of connectable conductor cross-sections for main	mm mm	100 5 75 500 3 busbar connection screw-type terminals 0 3
upwards at the side downwards wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	mm mm	100 5 75 500 3 busbar connection screw-type terminals 0 3 1
upwards at the side downwards wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point finely stranded with core end processing	mm mm	100 5 75 500 3 busbar connection screw-type terminals 0 3 1
upwards at the side downwards wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point finely stranded without core end processing finely stranded without core end processing	mm mm	100 5 75 500 3 busbar connection screw-type terminals 0 3 1 70 240 mm² 70 240 mm²
upwards     at the side     downwards  wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection     for main current circuit     for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     finely stranded with core end processing     finely stranded without core end processing     stranded  type of connectable conductor cross-sections for main	mm mm	100 5 75 500 3 busbar connection screw-type terminals 0 3 1 70 240 mm² 70 240 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 for AWG cables 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)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
• for main contacts		2/0 500 kcmil
for auxiliary contacts		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during operation according 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 on the front according to IEC 60529		IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover
Certificates/ approvals		

Certificates/ approvals

General Product Approval



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other







Confirmation

UL/CSA ratings

yielded mechanical performance [hp] for 3-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
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	250
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	300
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	600
contact rating of auxiliary contacts according to UL		B300 / R300

#### Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

### Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

### Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

### Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

## Industry Mall (Online ordering system)

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

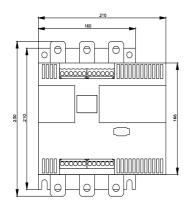
#### Cax online generator

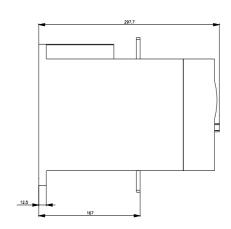
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4447-6BC44

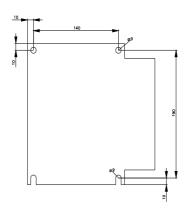
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

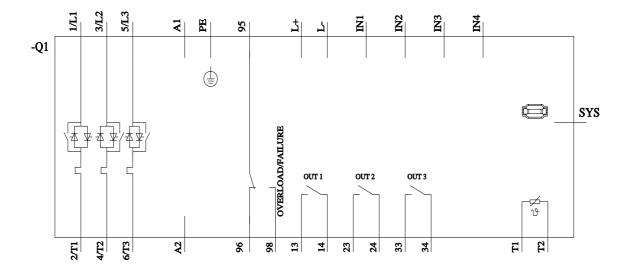
https://support.industry.siemens.com/cs/ww/en/ps/3RW4447-6BC44

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>









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