## **SIEMENS**

**Data sheet** 3RW4443-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 203 A, 110 kW Inside-delta: 352 A, 200 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5543-6HA14<<

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function		
intrinsic device protection		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
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		
at 40 °C rated value	Α	203
at 50 °C rated value	Α	180
at 60 °C rated value	Α	156
operational current for 3-phase motors at inside-delta circuit		
at 40 °C rated value	Α	352
at 50 °C rated value	Α	312
at 60 °C rated value	Α	270
yielded mechanical performance for 3-phase motors • at 230 V		
— at standard circuit at 40 °C rated value	kW	55
— at inside-delta circuit at 40 °C rated value	kW	110
● at 400 V		
— at standard circuit at 40 °C rated value	kW	110
— at inside-delta circuit at 40 °C rated value	kW	200
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	50
operating frequency rated value	Hz	50 60
	112	30 00
relative negative 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 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	40
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	89
Control circuit/ Control		
type of voltage of the control supply voltage		AC
control supply voltage frequency 1 rated value	Hz	50
	Hz	
control supply voltage frequency 2 rated value	HZ %	60 -10
relative negative tolerance of the control supply voltage frequency		
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
<ul> <li>at 50 Hz rated value</li> </ul>	V	230
<ul> <li>at 60 Hz rated value</li> </ul>	V	230
relative negative tolerance of the control supply	%	-15
voltage at AC at 50 Hz 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	%	10
voltage at AC at 60 Hz		D: 1
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		
• 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
for auxiliary and control circuit		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>		
s interference with core on a proceeding		70 240 mm²
finely stranded without core end processing		70 240 mm² 70 240 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		70 240 mm²
<ul> <li>finely stranded without core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back</li> </ul>		70 240 mm²

120 ... 185 mm<sup>2</sup> • finely stranded without core end processing 120 ... 240 mm<sup>2</sup> type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • finely stranded with core end processing min. 2x 50 mm<sup>2</sup>, max. 2x 185 mm<sup>2</sup> • finely stranded without core end processing min. 2x 50 mm², max. 2x 185 mm² max. 2x 70 mm², max. 2x 240 mm² type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the back clamping point 250 ... 500 kcmil 3/0 ... 600 kcmil using the front clamping point 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 mm<sup>2</sup> 70 ... 240 mm<sup>2</sup> type of connectable conductor cross-sections for auxiliary contacts 2x (0.5 ... 2.5 mm<sup>2</sup>) solid • finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>) type of connectable conductor cross-sections at AWG cables · for main contacts 2/0 ... 500 kcmil 2x (20 ... 14) for auxiliary contacts • for auxiliary contacts finely stranded with core end 2x (20 ... 16) processing **Ambient conditions** installation altitude at height above sea level m environmental category • during transport according to IEC 60721 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 • during operation according to IEC 60721 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 °C during storage -25 ... +80 °C 40 derating temperature protection class IP on the front according to IEC IP00; IP20 with box terminal/cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover Certificates/ approvals

**General Product Approval** 







Confirmation







**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report

**Special Test Certific**ate





Marine / Shipping

other







UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC		
motor		
• at 200/208 V		
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	100
• at 220/230 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	60
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	125
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	125
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	250
contact rating of auxiliary contacts according to UL		B300 / R300

## Further information

Simulation Tool for Soft Starters (STS)

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

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=3RW4443-6BC44

Cax online generator

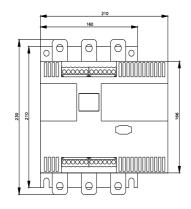
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-6BC44

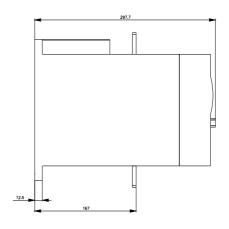
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

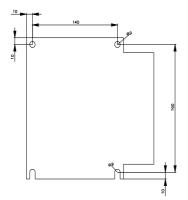
https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC44

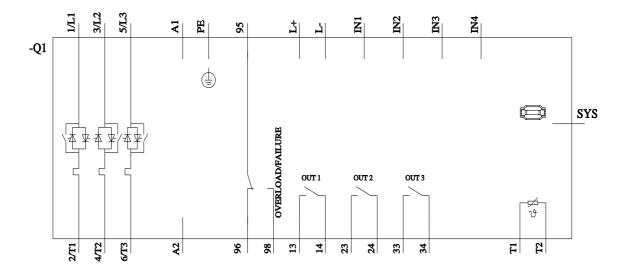
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4443-6BC44&lang=en









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