## **SIEMENS**

## Data sheet

## 3RW44 43-6BC44



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

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	
Reference identifier acc. to DIN EN 61346-2	Q	
Reference indentifier acc. to DIN 40719 extended	G	
according to IEC 204-2 acc. to IEC 750		
Power Electronics		
Product designation	Soft starter	

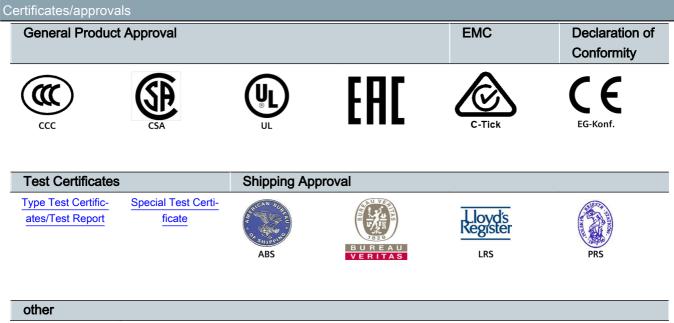
Operating current		
• at 40 °C rated value	А	203
• at 50 °C rated value	А	180
• at 60 °C rated value	А	156
Operating current for three-phase motors at inside-		
delta circuit		
• at 40 °C rated value	А	352
• at 50 °C rated value	А	312
• at 60 °C rated value	А	270
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	55 000
— at inside-delta circuit at 40 °C rated value	W	110 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	110 000
— at inside-delta circuit at 40 °C rated value	W	200 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	50
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 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	A	40
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	89
Control electronics		
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 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
downwards	mm	75
Wire length maximum	m	500
Number of poles for main current circuit		3

Connections/Terminals	
Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	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	400 405 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	120 185 mm²

		100 105 2
<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		
<ul> <li>finely stranded</li> </ul>		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		
<ul> <li>for main contacts</li> </ul>		2/0 500 kcmil
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core</li> </ul>		2x (20 16)
end processing		
Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category	-	
<ul> <li>during transport 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 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



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	100
● at 220/230 V		
— at standard circuit at 50 °C rated value	hp	60
— at inside-delta circuit at 50 °C rated value	hp	125
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	125
— at inside-delta circuit at 50 °C rated value	hp	250
Contact rating of auxiliary contacts according to UL		B300 / R300

## urther information

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

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

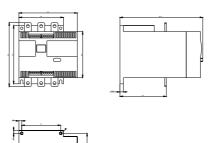
Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4443-6BC44

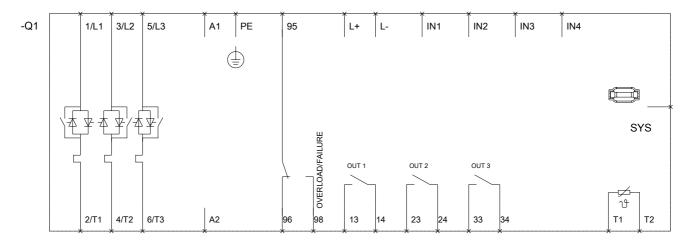
Cax online generator

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

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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