# **SIEMENS**

Data sheet 3RW44 35-6BC44



SIRIUS soft starter Values at 400 V, 40 °C Standard: 134 A, 75 kW Inside-delta: 232 A, 132 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

Operating current		
• at 40 °C rated value	Α	134
• at 50 °C rated value	Α	117
• at 60 °C rated value	Α	100
Operating current for three-phase motors at inside- delta circuit		
• at 40 °C rated value	Α	232
• at 50 °C rated value	Α	203
• at 60 °C rated value	Α	173
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	37 000
— at inside-delta circuit at 40 °C rated value	W	75 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	75 000
— at inside-delta circuit at 40 °C rated value	W	132 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30
Operating frequency rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
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	Α	26
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	76
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	170
Height	mm	200
Depth	mm	270
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>	16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	16 70 mm²
• stranded	16 70 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>	16 70 mm²

<ul> <li>finely stranded without core end processing</li> </ul>	16 70 mm²
• stranded	16 70 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>	max. 1x 50 mm², 1x 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
• stranded	max. 2x 70 mm <sup>2</sup>
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal	
<ul> <li>using the back clamping point</li> </ul>	6 2/0
<ul> <li>using the front clamping point</li> </ul>	6 2/0
<ul> <li>using both clamping points</li> </ul>	max. 2x 1/0
Type of connectable conductor cross-sections for DIN cable lug for main contacts	
finely stranded	16 95 mm²
• stranded	25 120 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	4 250 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		
<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
• during storage 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 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		
<ul> <li>during operation</li> </ul>	°C	60
<ul><li>during storage</li></ul>	°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	60
● at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	40
— at inside-delta circuit at 50 °C rated value	hp	75
● at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	75
— at inside-delta circuit at 50 °C rated value	hp	150
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)

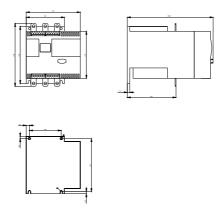
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4435-6BC44

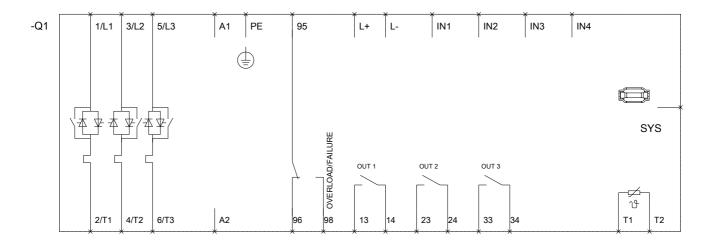
### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-6BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-6BC44

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=3RW4435-6BC44&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4435-6BC44&lang=en</a>





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