## **SIEMENS**



Data sheet 3RW4435-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 117 A, 75 hp Inside-delta: 203 A, 150 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5535-6HA14<<

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
<ul><li>thyristors</li></ul>		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
<ul> <li>external reset</li> </ul>		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	134
<ul> <li>at 50 °C rated value</li> </ul>	Α	117
<ul> <li>at 60 °C rated value</li> </ul>	Α	100
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	Α	232
<ul> <li>at 50 °C rated value</li> </ul>	А	203
<ul> <li>at 60 °C rated value</li> </ul>	А	173
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	37
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	kW	75
● at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	75
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	kW	132
yielded mechanical performance [hp] for 3-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 frequency	%	-10 disaptadana
relative positive tolerance of the operating frequency	- %	10 dientudong
operating voltage at standard circuit rated value	V	
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 operational current at 40 °C during operation typical	W	76
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		
<ul> <li>at 50 Hz rated value</li> </ul>	V	115
at 60 Hz rated value	V	115
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	170
height	mm	200
depth	mm	270
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
downwards	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		
finely stranded with core end processing		16 70 mm²

- finally always and without any and was according		10
finely stranded without core end processing		16 dientudena
• stranded		dientudong
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		Jaionedang
<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 mm², 1x 70 mm²
stranded		max. 2x 70 mm <sup>2</sup>
type of connectable conductor cross-sections at AWG cables 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
using both clamping points		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)
finely stranded with core end processing		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
for main contacts		4 250 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)
<ul> <li>during storage according to IEC 60721</li> </ul>		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		
<ul> <li>during operation</li> </ul>	°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		

General Product Approval EMC



Confirmation









Declaration of Conformity Test Certificates	Marine / Shipping
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Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

other





Confirmation

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	60
• at 220/230 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	40
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	75
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	75
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	150
contact rating of auxiliary contacts according to UL		B300 / R300
F41 i f 4i		

## **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=3RW4435-6BC34

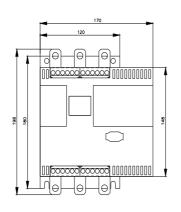
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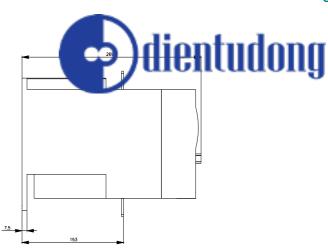
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-6BC34

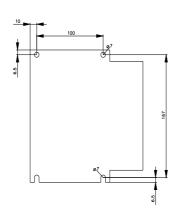
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

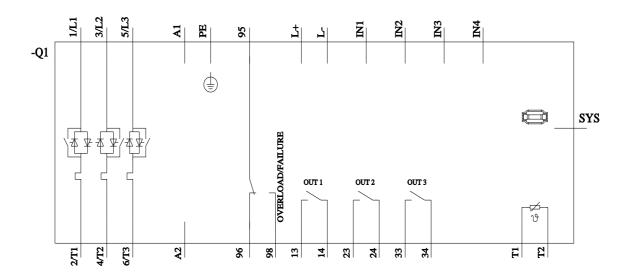
https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-6BC34

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=3RW4435-6BC34&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4435-6BC34&lang=en</a>









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