## SIEMENS

## Data sheet

## 3RW4425-1BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 51 A, 30 hp Inside-delta: 88 A, 60 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5525-1HA14<<

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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	А	57
<ul> <li>at 50 °C rated value</li> </ul>	А	51
• at 60 °C rated value	А	45
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	99
• at 50 °C rated value	А	88
<ul> <li>at 60 °C rated value</li> </ul>	А	78
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	15 000
— at inside-delta circuit at 40 °C rated value	W	30 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	30 000
— at inside-delta circuit at 40 °C rated value	W	55 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	15

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	11
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	36
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	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	192
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		
<ul> <li>for main current circuit</li> </ul>		box terminal
<ul> <li>for auxiliary and control 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			
• solid		2.5 16 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 35 mm²	
<ul> <li>finely stranded without core end processing</li> </ul>		4 50 mm²	
• stranded		4 70 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point			
• solid		2,5 16 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm²	
<ul> <li>finely stranded without core end processing</li> </ul>		10 50 mm²	
• stranded		10 70 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points			
• solid		2x (2.5 16 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>		2x (4 35 mm²)	
• stranded		2x (4 50 mm²)	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal			
<ul> <li>using the back clamping point</li> </ul>		10 2/0	
<ul> <li>using the front clamping point</li> </ul>		10 2/0	
<ul> <li>using both clamping points</li> </ul>		2x (10 1/0)	
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 cables			
<ul> <li>for auxiliary contacts</li> </ul>		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 acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall I	neight 0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensa 1S2 (sand must not get inside t	tion), 1C2 (no salt mist), he devices), 1M4
during operation acc. to IEC 60721		3K6 (no formation of ice, no con mist), 3S2 (sand must not get in	
ambient temperature			
during operation	°C	60	
during storage	°C	-25 +80	
derating temperature	°C	40	
protection class IP on the front acc. to IEC 60529		IP20	
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact	from the front
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity
			~ ~
		t <b>HL 🖄</b>	CE
CSM CCC UL		KGM	EG-Konf.
Tool Contification			
Test Certificates Marine / Ship	pilly		

Special Test Certific-	<u>Type Test Certific-</u>
ate	ates/Test Report

other









Marine / Shipping



**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	25
• at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	15
- at inside-delta circuit at 50 °C rated value	hp	30
• at 460/480 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	30
- at inside-delta circuit at 50 °C rated value	hp	60
contact rating of auxiliary contacts according to UL		B300 / R300
Further information		

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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=3RW4425-1BC34

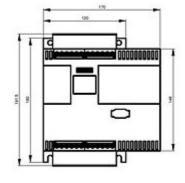
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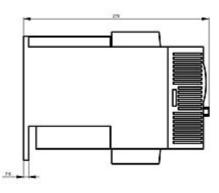
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4425-1BC34

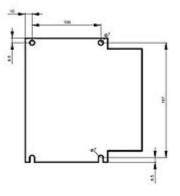
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

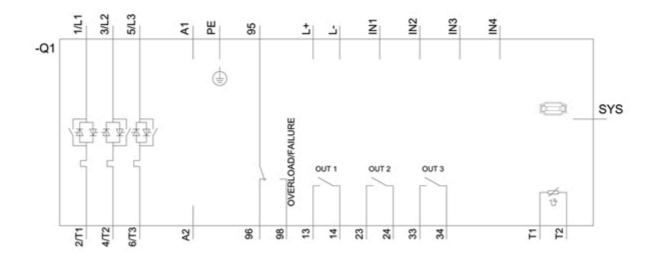
https://support.industry.siemens.com/cs/ww/en/ps/3RW4425-1BC34

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=3RW4425-1BC34&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4425-1BC34&lang=en</a>









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