## SIEMENS

## Data sheet

## 3RW4425-1BC36



SIRIUS soft starter Values at 575 V, 50 °C standard: 51 A, 40 hp Inside-delta: 88 A, 75 hp 400-690 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5525-1HA16<<

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
<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 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
<ul> <li>at 60 °C rated value</li> </ul>	А	45
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	99
<ul> <li>at 50 °C rated value</li> </ul>	А	88
<ul> <li>at 60 °C rated value</li> </ul>	А	78
yielded mechanical performance for 3-phase motors		
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	30 000
- at inside-delta circuit at 40 °C rated value	W	55 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	37 000
- at inside-delta circuit at 40 °C rated value	W	55 000
<ul> <li>at 690 V at standard circuit at 40 °C rated value</li> </ul>	W	55 000
operating frequency rated value	Hz	50 60

		40
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 690
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	400 600
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	А	11
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	36
operation typical		
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		
for main current circuit		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		

<ul> <li>during transport acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist),
environmental category		
installation altitude at height above sea level	m	5 000
Ambient conditions		
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
type of connectable conductor cross-sections at AWG		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm <sup>2</sup> )
• solid		2x (0.5 2.5 mm²)
auxiliary contacts		
using both clamping points     type of connectable conductor cross-sections for		2A (10 1/0)
using the nonceamping points     using both clamping points		2x (10 1/0)
using the front clamping point		10 2/0
<ul> <li>using the back clamping point</li> </ul>		10 2/0
cables for main contacts for box terminal		
type of connectable conductor cross-sections at AWG		
• stranded		2x (4 50 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>		2x (2 35 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 16 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> )
• solid		2x (2.5 16 mm²)
main contacts for box terminal using both clamping		
stranded type of connectable conductor cross-sections for		10 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		10 50 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm²
• solid		2,5 16 mm²
main contacts for box terminal using the back clamping point		
type of connectable conductor cross-sections for main contacts for how terminal using the back		
• stranded		4 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		4 50 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 35 mm <sup>2</sup>

<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	B D R E A D VERITAS	Lloyd's Register urs	PRS
Marine / Shipping	other				
A STOCKED AND	<b>Confirmation</b>				

UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
• 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	
• at 575/600 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	
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=3RW4425-1BC36			

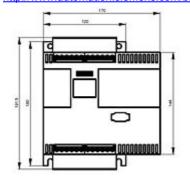
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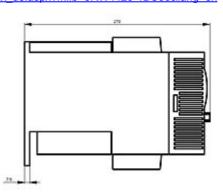
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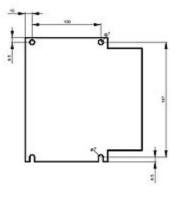
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4425-1BC36

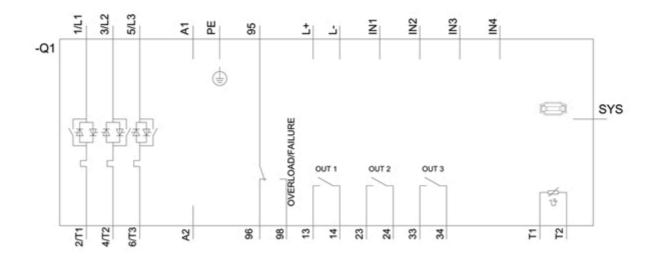
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4425-1BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4425-1BC36&lang=en









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