## **SIEMENS**

Data sheet 3RW4423-1BC36



SIRIUS soft starter Values at 575 V, 50 °C standard: 32 A, 25 hp Inside-delta: 55 A, 50 hp 400-690 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5524-1HA16<<

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 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>	Α	36		
<ul> <li>at 50 °C rated value</li> </ul>	Α	32.2		
at 60 °C rated value	Α	29		
operational current for 3-phase motors at inside-delta circuit				
<ul> <li>at 40 °C rated value</li> </ul>	Α	62		
<ul> <li>at 50 °C rated value</li> </ul>	Α	55		
at 60 °C rated value	Α	50		
yielded mechanical performance for 3-phase motors				
• at 400 V				
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	18 500		
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	W	30 000		
● at 500 V				
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	22 000		
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	W	37 000		
at 690 V at standard circuit at 40 °C rated value	W	37 000		
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	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	A	7		
continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during operation typical	W	10		
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	<b>%</b>	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		
<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		box terminal		
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     • finely stranded without core end processing     • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • solid     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping point     • solid     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • stranded  type of connectable conductor cross-sections at AWG cables for main contacts for box terminal     • using the back clamping point     • using the back clamping point     • using the back clamping point     • using both clamping point     • using two both clamping points     • solid     • fron auxiliary contacts     • for auxiliary contacts     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts     • for auxil	• solid		2.5 16 mm²		
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stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  solid  finely stranded with core end processing finely stranded with core end processing stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  solid finely stranded without core end processing finely stranded without core end processing stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  solid finely stranded with core end processing finely stranded without core end processing stranded  type of connectable conductor cross-sections at AWG cables for main contacts for box terminal using the front clamping point using both clamping point using both clamping point using both clamping point 2x (10 1/0)  type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing  with a finely stranded with core end processing  with a finely stranded with core end processing  with a finely stranded with core end processing  a finely stranded with core end processing  with a finely stranded with core end processing  with a finely stranded with core end processing  with a finely stranded with core end processing  a finely stranded with core end processing  with a finely stranded with core end processing  with a finely stranded with core end processing  a finely stranded with core end processing  with a finely stranded with core end processing  a finely stranded with core end pro					
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main contacts for box terminal using both clamping points  • solid  • finely stranded with core end processing • finely stranded without core end processing • stranded  • stranded  type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the back clamping point • using the front clamping point • using both clamping point • using both clamping points  • solid • finely stranded with core end processing  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing  type of connectable conductor cross-sections at AWG cables • for auxiliary contacts • for one finely stranded with core end processing  Ambient conditions • finely stranded with core end processing  **Aux (20 14)  **Ex (20 14)  • during transport acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage • during operation • during storage • derating temperature • during operation • dur	stranded		10 70 mm²		
• finely stranded with core end processing • finely stranded without core end processing • stranded  type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the back clamping point • using the front clamping point • using both clamping points  2x (4 35 mm²)  3x (10 1/0)	main contacts for box terminal using both clamping				
• finely stranded without core end processing • stranded  type of connectable conductor cross-sections at AWG cables for main contacts for box terminal  • using the back clamping point • using the front clamping point • using both clamping point • using both clamping point • using both clamping point • using the front clamping point • using both clamping point • using the front acc. to IEC 60721 • using the front acc to IEC 60721 • using the front acc to IEC 60721 • using the front acc to IEC 60529 • Certificates/ approvals	• solid		2x (2.5 16 mm²)		
stranded      type of connectable conductor cross-sections at AWG cables for main contacts for box terminal      using the back clamping point     using the front clamping point     using both clamping points     type of connectable conductor cross-sections for auxiliary contacts     is solid          finely stranded with core end processing     type of connectable conductor cross-sections at AWG cables     if for auxiliary contacts     if or auxiliary contacts in ely stranded with core end processing  Ambient conditions  installation altitude at height above sea level     environmental category     iduring transport acc. to IEC 60721     iduring storage acc. to IEC 60721     iduring operation acc. to IEC 60721     iduring operation     iduring operation     iduring storage     iderating temperature     iderating te	<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm²)		
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal  • using the back clamping point  • using the front clamping point  • using both clamping points  • using both clamping points  • using both clamping points  • using the front clamping points  • using both clamping points  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections at AWG cables  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  Ambient conditions  installation altitude at height above sea level  environmental category  • during transport acc. to IEC 60721  • during storage acc. to IEC 60721  • during operation acc. to IEC 60721  • during operation acc. to IEC 60721  • during operation  • during storage  derating temperature  • during storage  c C -25 +80  derating temperature  protection class IP on the front acc. to IEC 60529  touch protection on the front acc. to IEC 60529  for certificates/approvals	<ul> <li>finely stranded without core end processing</li> </ul>		2x (4 35 mm²)		
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using both clamping points      type of connectable conductor cross-sections for auxiliary contacts         • solid	<ul> <li>using the back clamping point</li> </ul>		10 2/0		
type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections at AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  Ambient conditions  installation altitude at height above sea level  environmental category  • during transport acc. to IEC 60721  • during storage acc. to IEC 60721  • during operation acc. to IEC 60721  ambient temperature  • during operation  • during storage  • during storage  • during storage  • during storage  • during temperature  • during operation  • during storage  • conditions    Solid    2x (20 14)   2x (20 16)   2x (20	<ul> <li>using the front clamping point</li> </ul>				
auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections at AWG cables  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  Ambient conditions  installation altitude at height above sea level  environmental category  • during transport acc. to IEC 60721  • during storage acc. to IEC 60721  • during operation acc. to IEC 60721  • during operation acc. to IEC 60721  ambient temperature  • during operation  • during storage  • during storage  • during storage  • during operation  • condensation  • cond	using both clamping points		2x (10 1/0)		
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• for auxiliary contacts finely stranded with core end processing  Ambient conditions  installation altitude at height above sea level m 5 000  environmental category  • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mis 1S2 (sand must not get inside the devices), 1M4  • during operation acc. to IEC 60721 3K6 (no formation of ice, no condensation), 3C3 (no smist), 3S2 (sand must not get into the devices), 3M6  ambient temperature  • during operation °C 60  • during storage °C -25 +80  derating temperature  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	<b>31</b>				
Ambient conditions  installation altitude at height above sea level environmental category  • during transport acc. to IEC 60721 • during storage acc. to IEC 60721 • during operation acc. to IEC 60721  ambient temperature • during operation • during storage • during storage • during storage • during storage • condensation • condensati	•		2x (20 14)		
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environmental category  • during transport acc. to IEC 60721 • during storage acc. to IEC 60721  • during operation acc. to IEC 60721  ambient temperature • during operation • during storage • during temperature • during temperature • during temperature • during storage  c c c c c c c c c c c c c c c c c c c	Ambient conditions				
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1S2 (sand must not get inside the devices), 1M4     • during operation acc. to IEC 60721     3K6 (no formation of ice, no condensation), 3C3 (no smist), 3S2 (sand must not get into the devices), 3M6  ambient temperature     • during operation     • during storage     • C     -25 +80  derating temperature     • cc     -25 +80  protection class IP on the front acc. to IEC 60529  touch protection on the front acc. to IEC 60529  Certificates/ approvals    Section of the devices   1M4   3K6 (no formation of ice, no condensation), 3C3 (no smist), 3S2 (sand must not get into the devices), 3M6   C	<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height	0.3 m)	
mist), 3S2 (sand must not get into the devices), 3M6  ambient temperature  • during operation  • during storage  • C  derating temperature  protection class IP on the front acc. to IEC 60529  touch protection on the front acc. to IEC 60529  Certificates/ approvals	<ul> <li>during storage acc. to IEC 60721</li> </ul>		1S2 (sand must not get inside the de-	vices), 1M4	
<ul> <li>during operation</li> <li>during storage</li> <li>C -25 +80</li> <li>derating temperature</li> <li>C 40</li> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> <li>IP20</li> <li>Certificates/ approvals</li> </ul> Declaration of the front acc. to IEC 60529	during operation 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 storage</li> <li>C -25 +80</li> <li>derating temperature</li> <li>C 40</li> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> <li>Certificates/ approvals</li> </ul> Declaration of the front acc. to IEC 60529	ambient temperature				
derating temperature  protection class IP on the front acc. to IEC 60529  touch protection on the front acc. to IEC 60529  Certificates/ approvals  Peclaration of	<ul><li>during operation</li></ul>	°C	60		
protection class IP on the front acc. to IEC 60529  touch protection on the front acc. to IEC 60529  Certificates/ approvals  Declaration of	during storage		-25 +80		
touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front  Certificates/ approvals  Declaration of	derating temperature	°C	40		
Certificates/ approvals	protection class IP on the front acc. to IEC 60529		IP20		
Declaration of	touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front			
Declaration of	Certificates/ approvals				
General Product Approval EMC Conformity	General Product Approval		EMC	Declaration of Conformity	













**Test Certificates** 

Marine / Shipping









Marine / Shipping

other



Confirmation

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	20
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	40
• at 575/600 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	25
— at inside-delta circuit at 50 °C rated value	hp	50
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=3RW4423-1BC36

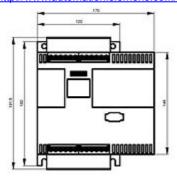
Cax online generator

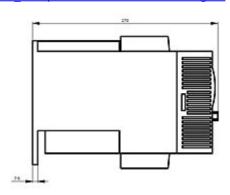
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4423-1BC36

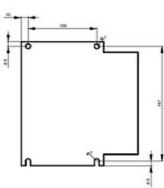
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

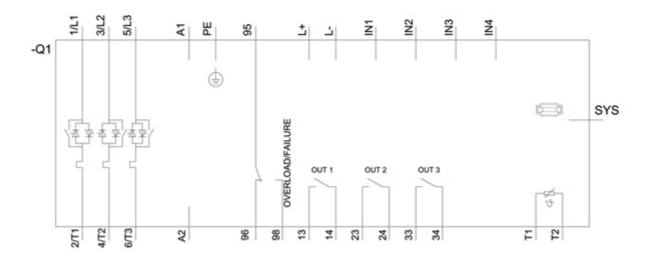
https://support.industry.siemens.com/cs/ww/en/ps/3RW4423-1BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW4423-1BC36&lang=en









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