## **SIEMENS**

Data sheet 3RW44 22-3BC35



SIRIUS soft starter Values at 575 V, 50 °C standard: 26 A, 20 hp Inside-delta: 45 A, 40 hp 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5516-3HA15<<

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		G	
according to IEC 204-2 acc. to IEC 750			

Product designation		Soft starter
Product designation		Soft starter
Operating current		
• at 40 °C rated value	A	29
● at 50 °C rated value	Α	26
at 60 °C rated value	Α	23
Operating current for three-phase motors at inside-		
delta circuit		50
• at 40 °C rated value	A	50
● at 50 °C rated value	Α	45
• at 60 °C rated value	Α	40
Mechanical power output for three-phase motors		
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	15 000
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	W	22 000
● at 500 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	18 500
— at inside-delta circuit at 40 °C rated value	W	30 000
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	400 600
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	Α	5
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	8
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		-15
voltage at AC at 50 Hz		-10
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
Machanical data		
Mechanical data Width	mm	170
Height	mm	192
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
• downwards	mm	75
Wire length maximum	m	500
Number of poles for main current circuit		3
Connectional Terrainale		
Connections/ Terminals  Type of electrical connection		
• for main current circuit		box terminal
for auxiliary and control current circuit		spring-loaded 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
• finely stranded with core end processing		2.5 35 mm²
finely stranded without core end processing		4 50 mm²
• stranded		4 70 mm²
- 1. 3 3. 3		

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 mm <sup>2</sup>
<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	2 (2 5 42 3)
• 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 conductors 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 (0.25 1.5 mm²)
• finely stranded with core end processing	2x (0.25 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	
• for auxiliary contacts	2x (24 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 height 0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<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		
during operation	°C	60
during storage	°C	-25 <b>+</b> 80
Derating temperature	°C	40
Protection class IP		IP00

Certificates/ approvals

## General Product Approval

**EMC** 

Declaration of Conformity













LRS

Declaration of Conformity	Test Certificates		Marine / Ship	ping	
Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate	LUICAN BURKE	SALE OF THE SALE O	Lloy

Marine / Shipping

other





Confirmation

UL/CSA ratings		
Yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 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 575/600 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	20
— at inside-delta circuit at 50 °C rated value	hp	40
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,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4422-3BC35

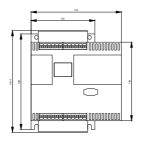
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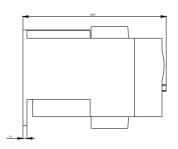
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4422-3BC35

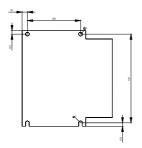
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

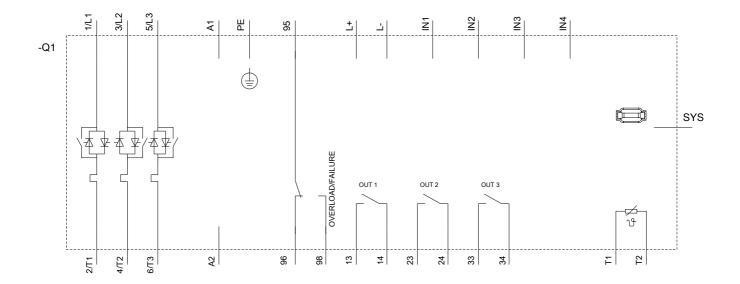
https://support.industry.siemens.com/cs/ww/en/ps/3RW4422-3BC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4422-3BC35&lang=en









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