# **SIEMENS**

Data sheet 3RW44 22-1BC34



SIRIUS SOFT STARTER, VALUES WITH 460 V, 50 DEG., STANDARD: 26A, 15HP, INSIDE-DELTA CIRCUIT 3: 45A, 30HP, 200-460 V AC, 115 V AC, SCREW TERMINALS

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	
Equipment marking acc. to DIN EN 61346-2		Q	
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G	

Power Electronics:			
Product designation		soft starters for high feature applications	
Operating current			
• at 40 °C Rated value	Α	29	
• at 50 °C Rated value	Α	26	
• at 60 °C Rated value	Α	23	
Operating current for three-phase motors at 3-phase root switching			
• at 40 °C Rated value	Α	50	

● at 50 °C Rated value	Α	45
• at 60 °C Rated value	Α	40
Mechanical power output for three-phase motors		
● at 230 V		
<ul> <li>at standard circuit at 40 °C Rated value</li> </ul>	W	5 500
— at 3-phase root switching at 40 °C Rated	W	15 000
value		
● at 400 V		
<ul> <li>— at standard circuit at 40 °C Rated value</li> </ul>	W	15 000
<ul> <li>— at 3-phase root switching at 40 °C Rated value</li> </ul>	W	22 000
yielded mechanical performance [hp] for three-phase	metric	7.5
AC motor at 200/208 V at standard circuit at 50 °C Rated value	hp	
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 3-phase root switching Rated value	V	200 460
Relative negative tolerance of the operating voltage at 3-phase root switching	%	-15
Relative positive tolerance of the operating voltage at 3-phase root switching	%	10
Minimum load in % of I_M	%	8
Adjustable motor current for motor overload protection minimum rated value	Α	5
Continuous operating current [% of le] at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	8
Control electronics:		
Type of voltage of the control supply voltage	11-	AC
Control supply voltage frequency 1 Rated value	Hz	50
Control supply voltage frequency 2 Rated value  Relative negative tolerance of the control supply	Hz %	-10
voltage frequency		
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 with AC		
• at 50 Hz Rated value	V	115

● at 60 Hz Rated value	V	115
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	10
Display version for fault signal		Display

Mechanical data:		
Width	mm	170
Height	mm	192
Depth	mm	270
Mounting type		screw fixing
mounting position		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
Required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
<ul><li>downwards</li></ul>	mm	75
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	500
Number of poles for main current circuit		3

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	box terminals
<ul> <li>for auxiliary and control current 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-section 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-section 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
• finely stranded without core end processing	10 50 mm²
• stranded	10 70 mm²

Type of connectable conductor cross-section 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-section for	
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-section 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-section for	
AWG conductors	
<ul> <li>for auxiliary contacts</li> </ul>	2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core</li> </ul>	2x (20 16)
end processing	
Ambient conditions:	
Ambient temperature	

Ambient conditions:				
Ambient temperature				
<ul><li>during operation</li></ul>	°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 Test** Conformity Certificates











**Special Test** Certificate

lest
Certificates

### **Shipping Approval**

Type Test Certificates/Test Report







metric

metric

hp

hp metric

hp

hp

metric

metric hp

10

7.5

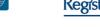
15

15

30

B300 / R300





**Shipping Approval**  other



Environmental Confirmations

## UL/CSA ratings: yielded mechanical performance [hp] for three-phase

## AC motor • at 200/208 V

- at 3-phase root switching at 50 °C Rated value

• at 220/230 V

- at standard circuit at 50 °C Rated value

— at 3-phase root switching at 50 °C Rated value

• at 460/480 V

- at standard circuit at 50 °C Rated value — at 3-phase root switching at 50 °C Rated

value Contact rating of the auxiliary contacts acc. to UL

Å	GL®
V 25 25	



LRS

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

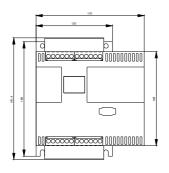
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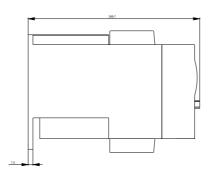
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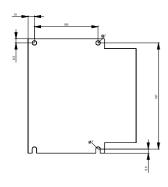
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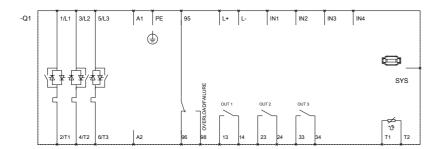
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW44221BC34

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=3RW44221BC34&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW44221BC34&lang=en</a>









**last modified:** 27.04.2015