## **SIEMENS**

Data sheet 3RW44 36-6BC34



SIRIUS SOFT STARTER, VALUES WITH 460 V, 50 DEG., STANDARD: 145A, 100HP, INSIDE-DELTA CIRCUIT 3: 251A, 200HP, 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		
<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		
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		

Product designation

soft starters for high feature applications

Operating current		
• at 40 °C rated value	Α	162
• at 50 °C rated value	Α	145
• at 60 °C rated value	Α	125
Operating current for three-phase motors at inside- delta circuit		
• at 40 °C rated value	Α	281
• at 50 °C rated value	Α	251
• at 60 °C rated value	Α	217
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	45 000
— at inside-delta circuit at 40 °C rated value	W	90 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	90 000
— at inside-delta circuit at 40 °C rated value	W	160 000
Yielded mechanical performance [hp] for three-phase	hp	40
AC motor at 200/208 V at standard circuit at 50 °C rated value		
Operating frequency rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
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 [% of IM]	%	8
Adjustable motor current for motor overload protection minimum rated value	A	32
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	95
Control electronics:		
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	%	-10
voltage frequency		
Relative positive tolerance of the control supply	%	10
voltage frequency		
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 60 Hz		
Relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz		
Display version for fault signal		Display
Mechanical data:		
Width	mm	170
Height	mm	200
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
<ul><li>downwards</li></ul>	mm	75
Installation altitude at height above sea level	m	5 000
Wire length maximum	m	500
Number of poles for main current circuit		3
Connections/ Terminals:		
Type of electrical connection		
for main current circuit		busbar connection
for auxiliary and control current 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		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
finely stranded without core end processing		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-sections for		
main contacts for box terminal using the back		
clamping point		

<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-sections for	-	
main contacts for box terminal using both clamping		
points		
<ul> <li>finely stranded with core end processing</li> </ul>		max. 1x 50 mm², 1x 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		max. 1x 50 mm², 1x 70 mm²
• stranded		max. 2x 70 mm <sup>2</sup>
Type of connectable conductor cross-sections at		
AWG conductors for main contacts for box terminal		
<ul><li>using the back clamping point</li></ul>		6 2/0
<ul><li>using the front clamping point</li></ul>		6 2/0
<ul><li>using both clamping points</li></ul>		max. 2x 1/0
Type of connectable conductor cross-sections for DIN cable lug for main contacts	-	
• finely stranded		16 95 mm²
• stranded		25 120 mm²
Type of connectable conductor cross-sections for auxiliary contacts	_	
• solid		2x (0.5 2.5 mm²)
• finely stranded with core end processing		2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	_	
• for main contacts		4 250 kcmil
• for auxiliary contacts		2x (20 14)
for auxiliary contacts finely stranded with core		2x (20 16)
end processing		
Ambient conditions:		
Ambient temperature		
during operation	°C	60
during storage	°C	-25 +80
Derating temperature	°C	40
Protection class IP		IP00

### Certificates/ approvals:

### **General Product Approval**

**EMC** 

Declaration of Conformity













### **Test Certificates**

### **Shipping Approval**

<u>spezielle</u> Prüfbescheinigunge n Typprüfbescheinigu ng/Werkszeugnis









GL

### **Shipping Approval**

other

Umweltbestätigung

Bestätigungen





# UL/CSA ratings: Yielded mechanic

Yielded mechanical performance [hp] for three-phase		
AC motor		
● at 200/208 V		
— at inside-delta circuit at 50 °C rated value	hp	75
● at 220/230 V		
— at standard circuit at 50 °C rated value	hp	50
— at inside-delta circuit at 50 °C rated value	hp	100
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	100
— at inside-delta circuit at 50 °C rated value	hp	200
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,...)

http://www.siemens.com/industrial-controls/catalogs

### Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW44366BC34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW44366BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW44366BC34&lang=en







