# **SIEMENS**

## Data sheet

## 3RW40 55-6BB35



SIRIUS SOFT STARTER, S6, 117 A, 100 HP/575 V, 50 DEG., 400-600 V AC, 115 V AC, SCREW TERMINALS

Yes Yes Yes
Yes
Yes
Yes
No
Yes
Yes
No
No
Q
G

Power Electronics:		
Product designation		soft starters for standard applications
Operating current		
• at 40 °C Rated value	А	134
• at 50 °C Rated value	А	117
• at 60 °C Rated value	А	100
Mechanical power output for three-phase motors		
● at 400 V		

— at standard circuit at 40 °C Rated value	W	75 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	90 000
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	400 600
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload	А	59
protection minimum rated value		
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	60
operation typical		
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 with AC		
● at 50 Hz Rated value	V	115
<ul> <li>at 60 Hz Rated value</li> </ul>	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		red
Mechanical data:		
		00
Size of engine control device		S6
Width	mm	120
Width Height	mm mm	120 198
Width	-	120

mounting position	_	With additional fan: With vertical mounting surface +/-
		90° rotatable, with vertical mounting surface +/- 22.5°
		tiltable to the front and back Without additional fan:
		With vertical mounting surface +/-10° rotatable, with
		vertical mounting surface +/- 10° t
Required spacing with side-by-side mounting	_	
• upwards	mm	100
• at the side	mm	5
• downwards	mm	75
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	300
Number of poles for main current circuit		3
Connections/ Terminals:		
Type of electrical connection		
<ul> <li>for main current circuit</li> </ul>		busbar connection
<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		2
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		
<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-section 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 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-section 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 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>		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-section for DIN		

cable lug for main contacts

<ul> <li>finely stranded</li> </ul>		16 95 mm	2	
• stranded		25 120 mi	m²	
Type of connectable conductor cross-section for auxiliary contacts				
• solid		2x (0.5 2.5	5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.		
Type of connectable conductor cross-section for			,	
AWG conductors		4 0501		
• for main contacts	4 250 kcmil			
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)		
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)		
Ambient conditions:				
Ambient temperature				
<ul> <li>during operation</li> </ul>	°C	-25 +60		
during storage	°C	-40 +80		
Derating temperature	°C	40		
Protection class IP		IP00		
Certificates/ approvals:				
General Product Approval	EN	1C	For use in hazardous locations	Test Certificates
General Product Approval			hazardous	
General Product Approval		TICK	hazardous locations	Certificates Special Test
Shipping Approval	oth	TICK	hazardous locations	Certificates Special Test
Shipping Approval	oth	TICK her nvironmental	hazardous locations	Certificates
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• at 575/600 V

- at standard circuit at 50 °C Rated value

100

metric

hp

#### Contact rating of the auxiliary contacts acc. to UL

B300 / R300

#### Further information

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

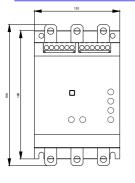
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

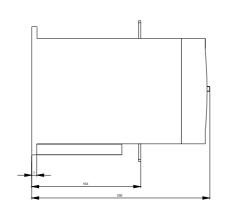
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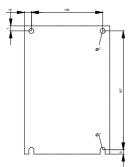
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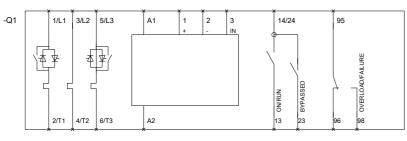
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40556BB35/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40556BB35&lang=en









last modified:

15.01.2015