# **SIEMENS**

## Data sheet

## 3RW40 75-6BB35



SIRIUS SOFT STARTER, S12, 315 A, 300 HP/575 V, 50 DEG., 400-600 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>	No
• External reset	Yes
<ul> <li>Adjustable current limitation</li> </ul>	Yes
• inside-delta circuit	No
Product component Motor brake output	 No
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 standard applications	
Operating current			
• at 40 °C Rated value	А	356	
• at 50 °C Rated value	А	315	
• at 60 °C Rated value	А	280	
Mechanical power output for three-phase motors			
• at 400 V			

— at standard circuit at 40 °C Rated value	W	200 000
● at 500 V		
— at standard circuit at 40 °C Rated value	W	250 000
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	A	131
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	125
operation typical		
Control electronics:		
Type of voltage of the control supply voltage	_	AC
Control supply voltage frequency 1 Rated value	Hz	50
	Hz	60
Control supply voltage frequency 2 Rated value	H∠ %	
Relative negative tolerance of the control supply voltage frequency		-10
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	%	10
voltage with AC at 60 Hz		
Display version for fault signal		red
Mechanical data:		
Size of engine control device		S12
Width	mm	160
Height	mm	230
Donth		
Depth	mm	278
Mounting type	mm	278 screw fixing

mounting position		With additional fan: With vertical mounting surface +/-
		$90^\circ$ rotatable, with vertical mounting surface +/- $22.5^\circ$
		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
<ul> <li>downwards</li> </ul>	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:		
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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>		70 240 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		70 240 mm²
• stranded		95 300 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>		120 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		120 185 mm²
• stranded		120 240 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>		min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²
• stranded		max. 2x 70 mm², max. 2x 240 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>		250 500 kcmil
<ul> <li>using the front clamping point</li> </ul>		3/0 600 kcmil
<ul> <li>using both clamping points</li> </ul>		min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-section for DIN cable lug for main contacts		

<ul> <li>finely stranded</li> </ul>		50 240 mi	m²	
stranded		70 240 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.	5 mm²)	
Type of connectable conductor cross-section for AWG conductors	-			
• for main contacts		2/0 500 ko	cmil	
<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			EMC	For use in hazardous locations
General Product Approval	E	AC	ЕМС	hazardous
	E	AC	C	hazardous locations
Image: Constraint of the second se		<b>FIC</b> ovdís sister	Сстіск	hazardous locations
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• at 575/600 V

- at standard circuit at 50 °C Rated value

250

metric

hp

— at standard circuit at 50 °C Rated value	metric hp	300
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

### urther information

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

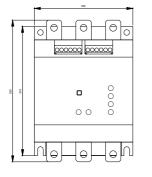
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

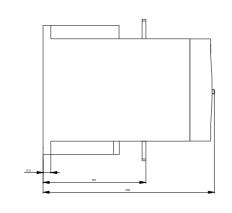
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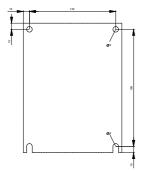
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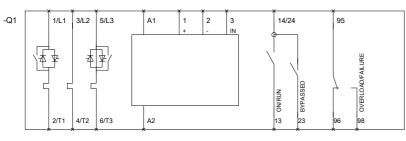
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40756BB35/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RW40756BB35&lang=en









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