SIEMENS

Data sheet

3RW40 74-6BB35



SIRIUS SOFT STARTER, S12, 248 A, 250 HP/575 V, 50 DEG., 400-600 V AC, 115 V AC, SCREW TERMINALS

product brand name		SIRIUS
Product feature	_	
 integrated bypass contact system 		Yes
Thyristors		Yes
Product function	_	
Intrinsic device protection		Yes
 motor overload protection 		Yes
 Evaluation of thermistor motor protection 		No
• External reset		Yes
 Adjustable current limitation 		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	280
• at 50 °C Rated value	А	248
• at 60 °C Rated value	А	215
Mechanical power output for three-phase motors		
● at 400 V		

— at standard circuit at 40 °C Rated value	W	160 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	200 000
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	130
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	90
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
• 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		red
Mechanical data:		
Size of engine control device		S12
Width	mm	160
Height	mm	230
Depth	mm	278
Mounting type		screw fixing
• •		

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:		
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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	-	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		
 finely stranded with core end processing 		70 240 mm²
 finely stranded without core end processing 		70 240 mm²
• stranded		95 300 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 		120 185 mm²
 finely stranded without core end processing 		120 185 mm²
• stranded		120 240 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
 finely stranded with core end processing 		min. 2x 50 mm², max. 2x 185 mm²
 finely stranded without core end processing 		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		
 using the back clamping point 		250 500 kcmil
 using the front clamping point 		3/0 600 kcmil
 using both clamping points 		min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-section for DIN cable lug for main contacts		

 finely stranded 		50 240 mi	m²	
stranded		70 240 mi		
Type of connectable conductor cross-section 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-section for AWG conductors				
• for main contacts		2/0 500 ko	cmil	
 for auxiliary contacts 		2x (20 14))	
 for auxiliary contacts finely stranded with core end processing 		2x (20 16))	
Ambient conditions:				
Ambient temperature				
 during operation 	°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
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• at 575/600 V

- at standard circuit at 50 °C Rated value

200

metric

hp

— at standard circuit at 50 °C Rated value	metric hp	250
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

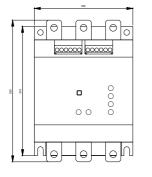
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

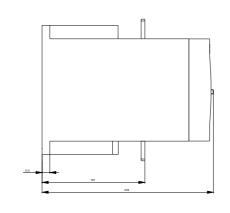
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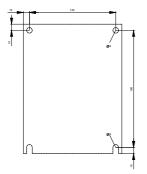
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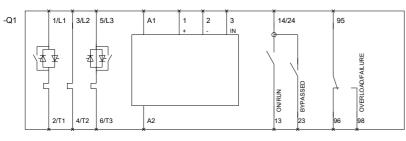
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40746BB35/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RW40746BB35&lang=en









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