SIEMENS

Data sheet

3RW40 56-6BB35



SIRIUS SOFT STARTER, S6, 145 A, 150 HP/575 V, 50 DEG., 400-600 V AC, 115 V AC, SCREW TERMINALS

General technical data:		
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	162
• at 50 °C Rated value	A	145
• at 60 °C Rated value	A	125
	-	
Mechanical power output for three-phase motors		
• at 400 V	10/	00.000
— at standard circuit at 40 °C Rated value	W	90 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	110 000
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	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 [% of IM]	%	20
Adjustable motor current for motor overload	А	87
protection minimum rated value		
Continuous operating current [% of le] at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	75
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 voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
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 voltage at AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
Display version for fault signal		red
Mechanical data:		
Size of engine control device		S6
Width	mm	120

Height	mm	198
Depth	mm	250
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:		
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 		16 70 mm²
 finely stranded without core end processing 		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 		16 70 mm²
 finely stranded without core end processing 		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
 finely stranded with core end processing 		max. 1x 50 mm², 1x 70 mm²
 finely stranded without core end processing 		max. 1x 50 mm ² , 1x 70 mm ²
• stranded		max. 2x 70 mm ²
Type of connectable conductor cross-section for		
AWG conductors for main contacts for box terminal		
 using the back clamping point 		6 2/0
 using the front clamping point 		6 2/0

Type of connectable conductor cross-section for DIN cable lug for main contacts • finely stranded • stranded Type of connectable conductor cross-section for auxiliary contacts • solid • finely stranded with core end processing Type of connectable conductor cross-section for AWG conductors • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing Ambient conditions: Ambient temperature • during operation • during storage Or Protection class IP Certificates/ approvals:	С	16 95 mm ² 25 120 mm 2x (0.5 2.5 2x (0.5 1.5 4 250 kcmi 2x (20 14) 2x (20 16) -25 +60 -40 +80 40	n² mm²) mm²)	
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during operation during storage Derating temperature Protection class IP	С	-40 +80		
• during storage Oreating temperature Protection class IP	С	-40 +80		
Derating temperature °(Protection class IP •				
Protection class IP	С	40		
Certificates/ approvals:		IP00		
General Product Approval			EMC	For use in hazardous locations
	CI	0 r		$\langle \mathcal{F}_{\mathbf{v}} \rangle$
		ΠL		
CCC CSA UL			C-TICK	ATEX
Declaration ofTestShipping ApplConformityCertificates	roval			other
			Lloy rol's	Umweltbestätigung
	G		Register	
EG-Konf. DNV		GL	LRS	
2		-		
IL/CSA ratings:				

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 V		
— at standard circuit at 50 °C Rated value	hp	100

● at 575/600 V		
— at standard circuit at 50 °C Rated value	hp	150
Contact rating of the auxiliary contacts acc. 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

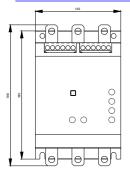
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

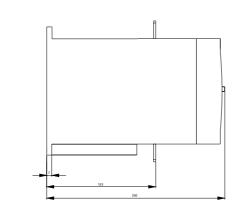
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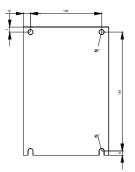
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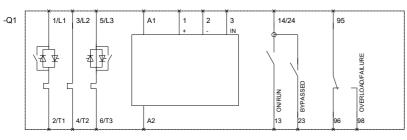
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW40566BB35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW40566BB35&lang=en









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