SIEMENS

Data sheet 3RW40 55-6BB34



SIRIUS SOFT STARTER, S6, 117 A, 75 HP/460 V, 50 DEG., 200-460 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	Α	134	
• at 50 °C Rated value	Α	117	
• at 60 °C Rated value	Α	100	
Mechanical power output for three-phase motors			
● at 230 V			

 — at standard circuit at 40 °C Rated value 	W	37 000
● at 400 V		
— at standard circuit at 40 °C Rated value	W	75 000
yielded mechanical performance [hp] for three-phase	metric	30
AC motor at 200/208 V at standard circuit at 50 °C	hp	
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	%	10
standard circuit		
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload	Α	59
protection minimum rated value		
Continuous operating current [% of le] 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 electronics:	Hz	AC 50
Control electronics: Type of voltage of the control supply voltage	Hz Hz	
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value		50
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value	Hz	50 60
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply	Hz	50 60
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency	Hz %	50 60 -10
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Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz	Hz % % V V	50 60 -10 10 115 115
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Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply voltage with AC at 60 Hz Display version for fault signal Mechanical data: Size of engine control device	Hz % % V V	50 60 -10 10 115 115 -15
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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 mm², 1x 70 mm²
• stranded	max. 2x 70 mm²
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
 using both clamping points 	max. 2x 1/0
Type of connectable conductor cross-section for DIN cable lug for main contacts	

16 95 mm²
25 120 mm²
2x (0.5 2.5 mm²)
2x (0.5 1.5 mm²)
4 250 kcmil
2x (20 14)
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	Test
		hazardous	Certificates
		locations	











Special Test Certificate

Shipping Approval





GL



LRS

other

Declaration of Conformity

Environmental Confirmations

UL/CSA ratings: yielded mechanical performance [hp] for three-phase AC motor • at 220/230 V

— at standard circuit at 50 $^{\circ}\text{C}$ Rated value

• at 460/480 V

— at standard circuit at 50 °C Rated value

е

40

metric

metric hp

hp

75

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

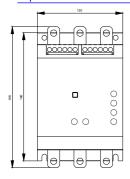
http://www.siemens.com/industrymall

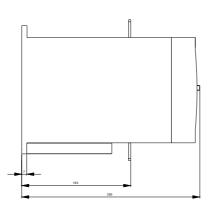
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40556BB34

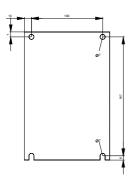
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

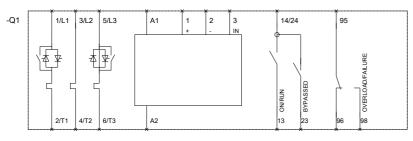
https://support.industry.siemens.com/cs/ww/en/ps/3RW40556BB34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW40556BB34&lang=en









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