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 brandname	SIRIUS		
 Product equipment Integrated bypass contact system 	Yes		
 Product feature 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 starter		

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 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	hp	30
AC motor at 200/208 V at standard circuit at 50 °C rated value		
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	200 460
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 protection minimum rated value	A	59
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	60
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		

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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
Wire 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-sections for	-	
main contacts for box terminal using the front		
clamping point		10 70 0
 finely stranded with core end processing 		16 70 mm ²
 finely stranded without core end processing 		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-sections for		
main contacts for box terminal using the back clamping point		
		16 70 mm²
 finely stranded with core end processing finely stranded without core and processing 		16 70 mm ²
 finely stranded without core end processing stranded 		16 70 mm ²
• stranded		
Type of connectable conductor cross-sections 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 mm ²
Type of connectable conductor cross-sections at		
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-sections for DIN cable lug for main contacts		
● finely stranded		16 95 mm²
• stranded		25 120 mm²
Type of connectable conductor cross-sections 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-sections at AWG conductors		
• for main contacts		4 250 kcmil
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)
Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category		
 during transport acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices),
		3M6
• during storage acc. to IEC 60721		
 during storage acc. to IEC 60721 during operation acc. to IEC 60721 		3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices),
		 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices),
• during operation acc. to IEC 60721	°C	 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices),
• during operation acc. to IEC 60721 Ambient temperature	°C °C	 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during operation acc. to IEC 60721 Ambient temperature during operation 		3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 -25 +60
 during operation acc. to IEC 60721 Ambient temperature during operation during storage 	°C	3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 -25 +60 -40 +80

General Produ	ict Approval		EMC	For use in hazardous locations	Declaration of Conformity
	CSA		C-Tick	ATEX ATEX	EG-Konf.
Test	Shipping App	roval	other		

Certificates				
Special Test			Confirmation	
Certificate	GL	Lloyd's Register		
	GL	LRS		

UL/CSA ratings			
Yielded mechanical performance [hp] for three-phase			
AC motor			
● at 220/230 V			
— at standard circuit at 50 °C rated value	hp	40	
● at 460/480 V			
— at standard circuit at 50 °C rated value	hp	75	
Contact rating of auxiliary contacts according to UL		B300 / R300	

-urther 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)

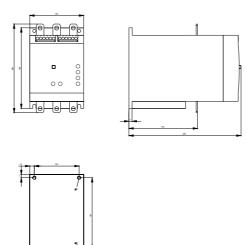
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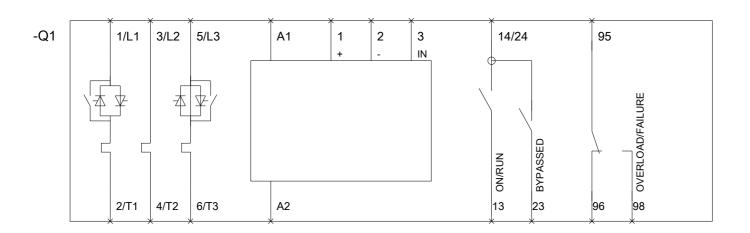
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4055-6BB34

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4055-6BB34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4055-6BB34&lang=en





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