SIEMENS

Data sheet

3RW44 54-6BC34



SIRIUS soft starter Values at 460 V, 50 °C Standard: 551 A, 450 hp Inside-delta: 954 A, 850 hp 200-460 V AC, 115 V AC Screw terminals

General technical data				
product brandname		SIRIUS		
 Product equipment Integrated bypass contact 		Yes		
system				
 Product feature Thyristors 		Yes		
Product function				
Froduct function				
 Intrinsic device protection 		Yes		
 motor overload protection 		Yes		
 Evaluation of thermistor motor protection 		Yes		
• External reset		Yes		
 Adjustable current limitation 		Yes		
Inside-delta circuit		Yes		
Product component Motor brake output		Yes		
Equipment marking acc. to DIN EN 61346-2		Q		
Equipment marking acc. to DIN 40719 extended		G		
according to IEC 204-2 acc. to IEC 750				
o				
Power Electronics				
Product designation		Soft starter		

Operating current		
• at 40 °C rated value	А	615
● at 50 °C rated value	А	551
• at 60 °C rated value	А	489
Operating current for three-phase motors at inside-		
delta circuit		
• at 40 °C rated value	А	1 065
• at 50 °C rated value	А	954
• at 60 °C rated value	А	847
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	200 000
— at inside-delta circuit at 40 °C rated value	W	355 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	355 000
— at inside-delta circuit at 40 °C rated value	W	630 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	150
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
Operating voltage at inside-delta circuit rated value	V	200 460
Relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
Relative positive tolerance of the operating voltage at inside-delta circuit	%	10
Minimum load [% of IM]	%	8
Adjustable motor current for motor overload protection minimum rated value	A	123
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	186
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		Display

Mechanical data		
Width	mm	510
Height	mm	640
Depth	mm	290
Mounting type		screw fixing
Mounting position		with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
• downwards	mm	75
Wire length maximum	m	500
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	3
Number of CO contacts for auxiliary contacts	1
Type of connectable conductor cross-sections for DIN cable lug for main contacts	
 finely stranded 	50 240 mm²
• stranded	70 240 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 		2/0 500 kcmil
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core 		2x (20 16)
end processing		
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 		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 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient temperature		
 during operation 	°C	60
• during storage	°C	-25 +80
Derating temperature	°C	40
Protection class IP		IP00

Certificates/appro	Certificates/approvals				
General Prod	uct Approval			EMC	Declaration of
					Conformity
	(SA)		EHC	C-Tick	EG-Konf.

Test	Shipping Appro	oval	other	
Certificates				
Special Test Certificate	ABS	Lloyd's Kegister	Confirmation	

UL/CSA ratings		
Yielded mechanical performance [hp] for three-phase		
AC motor		
● at 200/208 V		
— at inside-delta circuit at 50 °C rated value	hp	350
• at 220/230 V		

— at standard circuit at 50 °C rated value	hp	200
— at inside-delta circuit at 50 °C rated value	hp	400
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	450
— at inside-delta circuit at 50 °C rated value	hp	850
Contact rating of auxiliary contacts according 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)

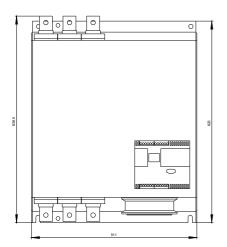
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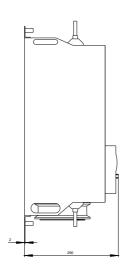
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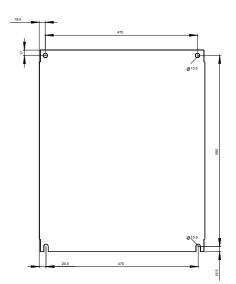
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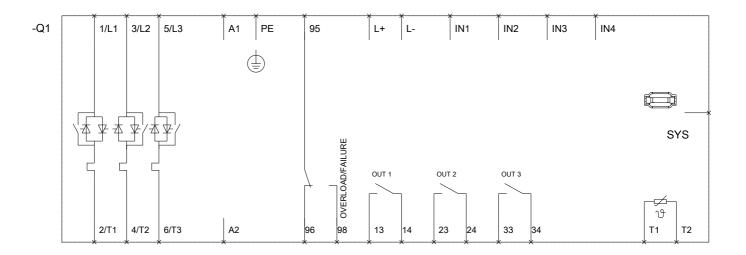
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4454-6BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4454-6BC34&lang=en









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