SIEMENS

Product data sheet

3RW4453-6BC44

SIRIUS SOFT STARTER, VALUES AT 400V, 40DEG., STANDARD: 551A, 315KW, INSIDE-DELTA CIRCUIT 3: 954A, 560KW, 200-460V AC, 230V AC, SCREW TERMINALS

Power Electronics:	
Product designation	soft starters for high feature applications
Operating current	
• at 40 °C / rated value	551 A
• at 50 °C / rated value	494 A
• at 60 °C / rated value	438 A
 for three-phase servomotors / at 3-phase root switching 	
• at 40 °C / rated value	954 A
• at 50 °C / rated value	856 A
• at 60 °C / rated value	759 A
Emitted mechanical power / for three-phase servomotors	
\bullet at 230 V / at standard switching / at 40 $^{\circ}\text{C}$	
rated value	160000 W
\bullet at 400 V / at standard switching / at 40 $^{\circ}\text{C}$	
rated value	315000 W
\bullet at 230 V / at 3-phase root switching / at 40 $^\circ\text{C}$	
rated value	315000 W
\bullet at 400 V / at 3-phase root switching / at 40 $^{\circ}\text{C}$	

Yielded mechanical performance (hp) / for three-phase servomotors • at 200 V / at standard switching • at 50 °C / rated value 150 hp • at 50 °C / rated value 200 hp • at 50 °C / rated value 400 hp • at 50 °C / rated value 400 hp • at 50 °C / rated value 400 hp • at 460 V / at standard switching 400 hp • at 200 V / at standard switching / at 50 °C - • rated value 300 hp • at 230 V / at 3-phase root switching / at 50 °C - • rated value 350 hp • at 460 V / at 3-phase root switching / at 50 °C - • rated value 750 hp Operating voltage - • rated value 200 V • maximum 460 V • at 3-phase root switching / rated value - • minimum 200 V • maximum 460 V • at ad value - • minimum 200 V • maximum 60 V Operating frequency - • maximum 60 Hz Control supply voltage - • at 60 Hz	rated value	560000 W
 at 200 V/ at standard switching at 50 °C / rated value 150 hp at 230 V/ at standard switching at 50 °C / rated value 200 hp at 400 V/ at standard switching at 50 °C / rated value 400 hp at 200 V/ at standard switching / at 50 °C rated value 300 hp at 20 V/ at 3-phase root switching / at 50 °C rated value 350 hp at 460 V/ at 3-phase root switching / at 50 °C rated value 350 hp at 460 V/ at 3-phase root switching / at 50 °C rated value 750 hp Operating voltage rated value 300 V maximum 460 V at 3-phase root switching / rated value minimum 200 V maximum 460 V at 3-phase root switching / rated value minimum 200 V maximum 460 V at 3-phase root switching / rated value minimum 200 V maximum 460 V at 3-phase root switching / rated value minimum 200 V maximum 460 V at 3-phase root switching / rated value minimum 50 Hz maximum 60 Hz Control supply voltage at 50 Hz / for AC / rated value minimum 200 V maximum 200 V maximum 200 V 	Yielded mechanical performance (hp) / for three-phase	
• at 50 °C / rated value150 hp• at 230 V / at standard switching200 hp• at 460 V / at standard switching400 hp• at 50 °C / rated value400 hp• at 50 °C / rated value300 hp• at 200 V / at 3-phase root switching / at 50 °C-• rated value350 hp• rated value350 hp• rated value350 hp• rated value350 hp• rated value750 hpOperating voltage-• rated value750 hpOperating voltage-• rated value200 V• maximum460 V• at 3-phase root switching / at 50 °C-• rated value-• rated value50 hpOperating voltage-• rated value-• minimum200 V• maximum460 V• at 3-phase root switching / rated value-• minimum200 V• maximum60 HzOperating frequency-• rated value-• minimum60 HzControl electronics:-Control electronics-Control supply voltage-• at 60 Hz / for AC / rated value-• minimum230 V• at 60 Hz / for AC / rated value-• minimum230 V• minimum230 V• minimum230 V• at 60 Hz / for AC / rated value-• minimum230 V• minimum230 V• minimum230	servomotors	
• at 230 V / at standard switching200 hp• at 460 V / at standard switching400 hp• at 50 °C / rated value400 hp• at 200 V / at 3-phase root switching / at 50 °C-• rated value300 hp• at 230 V / at 3-phase root switching / at 50 °C-• rated value350 hp• rated value750 hp• rated value750 hpOperating voltage-• rated value200 V• maximum200 V• maximum460 V• at 3-phase root switching / at 50 °C-• rated value750 hpOperating voltage-• rated value-• minimum200 V• maximum460 V• at 3-phase root switching / rated value-• minimum200 V• maximum460 V• operating frequency-• rated value-• minimum50 Hz• rated value-• rated value-• maximum60 HzControl supply voltage-• at 50 Hz / for AC / rated value-• minimum230 V• maximum230 V• maximum230 V	 at 200 V / at standard switching 	
• at 50 °C / rated value200 hp• at 460 V / at standard switching400 hp• at 50 °C / rated value400 hp• at 200 V / at 3-phase root switching / at 50 °C300 hp• at 230 V / at 3-phase root switching / at 50 °C50 hp• rated value350 hp• rated value350 hp• rated value750 hpOperating voltage750 hp• rated value200 V• maximum460 V• at 3-phase root switching / rated value200 V• maximum460 V• rated value200 V• maximum460 V• at 3-phase root switching / rated value100 N• minimum200 V• maximum460 V• at 3-phase root switching / rated value100 N• maximum460 VOperating frequency200 V• rated value200 V• maximum460 VOperating frequency100 N• rated value200 V• rated value200 V• maximum200 V• maximum200 V• maximum200 V• rated value100 N• rated value200 V• rated value100 N• rated value200 V•	• at 50 °C / rated value	150 hp
• at 460 V / at standard switching/• at 50 °C / rated value400 hp• at 200 V / at 3-phase root switching / at 50 °C300 hp• at 230 V / at 3-phase root switching / at 50 °C350 hp• rated value350 hp• at 460 V / at 3-phase root switching / at 50 °C750 hpOperating voltage750 hp• rated value200 V• minimum200 V• maximum460 V• at 3-phase root switching / rated value100 V• maximum460 V• at 3-phase root switching / rated value100 V• maximum200 V• maximum60 V• at 3-phase root switching / rated value100 V• maximum60 V• control electronics:100 VControl electronics:230 V• at 50 Hz / for AC / rated value230 V• maximum230 V• at 60 Hz / for AC / rated value230 V• maximum230 V• at 60 Hz / for AC / rated value230 V• maximum230	 at 230 V / at standard switching 	
• at 50 °C / rated value400 hp• at 200 V / at 3-phase root switching / at 50 °C300 hp• at 230 V / at 3-phase root switching / at 50 °C350 hp• rated value350 hp• at 460 V / at 3-phase root switching / at 50 °C-• rated value750 hpOperating voltage-• rated value750 hpOperating voltage-• rated value200 V• maximum460 V• at 3-phase root switching / rated value-• minimum200 V• maximum460 V• at 3-phase root switching / rated value-• minimum200 V• maximum60 VOperating frequency-• rated value-• rated value-• rated value-• minimum50 Hz• rated value-• rateed value-• r	• at 50 °C / rated value	200 hp
at 200 V / at 3-phase root switching / at 50 °C300 hp• at 230 V / at 3-phase root switching / at 50 °C350 hp• at 460 V / at 3-phase root switching / at 50 °C750 hp• at 460 V / at 3-phase root switching / at 50 °C750 hp• rated value750 hpOperating voltage200 V• rated value200 V• maximum200 V• maximum200 V• maximum200 V• maximum460 V• operating requency50 Hz• rated value50 Hz• minimum60 Hz• control supply voltage50 Hz• at 50 Hz / for AC / rated value230 V• maximum230 V• at 60 Hz / for AC / rated value230 V• minimum230 V• maximum230 V• at 60 Hz / for AC / rated value50 Hz• minimum230 V• maximum230 V <td> at 460 V / at standard switching </td> <td></td>	 at 460 V / at standard switching 	
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• at 230 V / at 3-phase root switching / at 50 °C· at 460 V / at 3-phase root switching / at 50 °C• rated value750 hpOperating voltage750 hp• rated value200 V• rated value460 V• ninimum200 V• maximum460 V• at 3-phase root switching / rated value900 V• maximum460 V• at 3-phase root switching / rated value900 V• maximum460 V• maximum200 V• maximum60 V• maximum60 VOperating frequency60 Hz• rated value900 V• rated value900 V• rated value900 V• maximum200 V• maximum200 V• maximum200 V• rated value900 V• maximum200 V• rated value900 V<	 at 200 V / at 3-phase root switching / at 50 °C 	
• rated value350 hp• rated value750 hpOperating voltage750 hp• rated value750 hp• rated value200 V• minimum460 V• at 3-phase root switching / rated value900 V• minimum200 V• maximum460 V• at 3-phase root switching / rated value900 V• minimum200 V• maximum460 V• maximum460 V• maximum60 V• maximum60 HzControl electronics:900 V• at 50 Hz / for AC / rated value900 V• minimum200 V• at 50 Hz / for AC / rated value900 V• maximum200 V• at 60 Hz / for AC / rated value900 V• minimum200 V• minimum200 V• maximum200 V• maximum200 V• maximum200 V• maximum200 V• at 50 Hz / for AC / rated value900 V• minimum230 V• maximum230 V• at 60 Hz / for AC / rated value900 V• minimum230 V• minimum230 V• at 60 Hz / for AC / rated value900 V• minimum230 V• minimum230 V• at 60 Hz / for AC / rated value900 V• minimum230 V• minimum230 V• minimum230 V• minimum900 V• minimum900 V• minimum900 V<	rated value	300 hp
• at 460 V / at 3-phase root switching / at 50 °C750 hp• rated value750 hpOperating voltage200 V• rated value200 V• maximum460 V• at 3-phase root switching / rated value200 V• minimum200 V• maximum460 V• or maximum460 V• or maximum460 V• maximum50 Hz• maximum60 V• maximum50 Hz• rated value50 Hz• minimum60 Hz• minimum230 V• at 50 Hz / for AC / rated value230 V• maximum230 V• at 60 Hz / for AC / rated value230 V• minimum230 V• minimum230 V• minimum230 V• minimum230 V• minimum230 V	 at 230 V / at 3-phase root switching / at 50 °C 	
• rated value750 hpOperating voltage-• rated value200 V• maximum460 V• at 3-phase root switching / rated value-• minimum200 V• at 3-phase root switching / rated value-• minimum200 V• maximum460 VOperating frequency460 V• rated value-• minimum50 Hz• maximum60 HzControl electronics:-Control supply voltage-• at 50 Hz / for AC / rated value230 V• maximum230 V• at 60 Hz / for AC / rated value-• minimum230 V• at 60 Hz / for AC / rated value-• minimum230 V• at 60 Hz / for AC / rated value-• minimum230 V• at 60 Hz / for AC / rated value-• minimum230 V• at 60 Hz / for AC / rated value-• minimum230 V	rated value	350 hp
Operating voltage - • rated value 200 V • minimum 200 V • maximum 460 V • at 3-phase root switching / rated value - • minimum 200 V • maximum 460 V Operating frequency - • rated value - • minimum 50 Hz • maximum 60 Hz Control electronics: - Control supply voltage - • at 50 Hz / for AC / rated value - • minimum 230 V • maximum 230 V • at 60 Hz / for AC / rated value - • minimum 230 V • at 60 Hz / for AC / rated value - • minimum 230 V • at 60 Hz / for AC / rated value - • minimum 230 V	 at 460 V / at 3-phase root switching / at 50 °C 	
 rated value minimum 200 V maximum 460 V at 3-phase root switching / rated value at 3-phase root switching / rated value minimum 200 V at 3-phase root switching / rated value minimum 200 V d60 V Operating frequency rated value minimum 50 Hz 60 Hz Control electronics: Control electronics Control supply voltage • at 50 Hz / for AC / rated value • minimum 230 V at 60 Hz / for AC / rated value • maximum	rated value	750 hp
• minimum200 V• maximum460 V• at 3-phase root switching / rated value-• minimum200 V• maximum460 VOperating frequency-• rated value50 Hz• minimum50 Hz• maximum60 HzControl electronics:-• at 50 Hz / for AC / rated value230 V• minimum230 V• at 60 Hz / for AC / rated value-• minimum230 V• minimum230 V	Operating voltage	
• maximum460 V• at 3-phase root switching / rated value200 V• minimum200 V• maximum460 VOperating frequency460 V• rated value50 Hz• minimum50 Hz• maximum60 HzControl electronics:200 V• at 50 Hz / for AC / rated value230 V• minimum230 V• maximum230 V• maximum230 V• maximum230 V• minimum230 V• minimum230 V• minimum230 V• minimum230 V• minimum230 V• minimum230 V	rated value	
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• minimum200 V• maximum460 VOperating frequency-• rated value50 Hz• minimum50 Hz• maximum60 HzControl electronics:200 V• at 50 Hz / for AC / rated value• minimum230 V• maximum230 V• at 60 Hz / for AC / rated value230 V• minimum230 V• minimum230 V• maximum230 V	• maximum	460 V
• maximum460 VOperating frequency-• rated value-• minimum50 Hz• maximum60 HzControl electronics:Control supply voltage-• at 50 Hz / for AC / rated value230 V• maximum230 V• at 60 Hz / for AC / rated value230 V• minimum230 V• minimum230 V• minimum230 V	 at 3-phase root switching / rated value 	
Operating frequencyImage: state of the state	• minimum	200 V
• rated value.• minimum50 Hz• maximum60 Hz Control electronics: .Control supply voltage.• at 50 Hz / for AC / rated value.• minimum230 V• maximum230 V• at 60 Hz / for AC / rated value.• minimum.• maximum.• maximum.• maximum.• minimum.• maximum.• maximum.• 230 V.• minimum.• Maximum.• Maximum	• maximum	460 V
• minimum50 Hz• maximum60 HzControl electronics:50 HzControl supply voltage-• at 50 Hz / for AC / rated value230 V• minimum230 V• at 60 Hz / for AC / rated value230 V• minimum230 V• minimum230 V• at 60 Hz / for AC / rated value230 V• minimum230 V	Operating frequency	
• maximum60 HzControl electronics:Control supply voltage-• at 50 Hz / for AC / rated value-• minimum230 V• maximum230 V• at 60 Hz / for AC / rated value-• minimum230 V	rated value	
Control electronics:Control supply voltage-• at 50 Hz / for AC / rated value-• minimum230 V• maximum230 V• at 60 Hz / for AC / rated value-• minimum230 V	• minimum	50 Hz
Control supply voltage	• maximum	60 Hz
 at 50 Hz / for AC / rated value minimum maximum at 60 Hz / for AC / rated value minimum 230 V 230 V 230 V 230 V 	Control electronics:	
• minimum 230 V • maximum 230 V • at 60 Hz / for AC / rated value 230 V • minimum 230 V	Control supply voltage	
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 • at 60 Hz / for AC / rated value • minimum 230 V 	• minimum	230 V
• minimum 230 V	• maximum	230 V
	• at 60 Hz / for AC / rated value	
• maximum 230 V	• minimum	230 V
	• maximum	230 V

50 Hz	
60 Hz	
AC	
510 mm	
638.5 mm	
290 mm	
3	
screw fixing	
busbar connection	
screw-type terminals	
0	
3	
1	
0°C	
60 °C	
IP00	
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10/31/2006	
10/31/2000	
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