

# SA7 Solid State Starter



- ▲ Advanced Solid-State Reduced Voltage Motor Starter
- ▲ Torque Ramp for Linear Acceleration
- ▲ Simple Setup for the Majority of Applications
- ▲ Enhanced Setup for More Demanding Applications
- ▲ Forward / Reverse Jogging
- ▲ Complete Monitoring Package Eliminates Need for Add On Devices
- ▲ Extensive Protection Features for Motor and Starter
- ▲ Rugged Compact Design
- ▲ Dynamic Motor Mapping Fine Tunes Every Start
- ▲ Serial Communications
- ▲ Available From 7.5 HP to 1000 HP (460 V)

# SA7 Solid State Starter

## SPECIFICATIONS

Item	Ratings
Power Ranges	7.5 - 1000 HP @ 460 V
Input Voltage	200-575 VAC +/-10%, 50/60Hz
Control Voltage	120 - 240 VAC +/- 10%
SCR Rating	1600 V PIV, Inverse Parallel
Overload Rating	600% - 6 Seconds, 500% -30 Seconds, 125% Continuous @ 40°C
Operator Interface	Keyboard, LED Display
Output Relays	(3) 2 Programmable, 1 Fault
Analog Output	0-20 mA, 4-20 mA, 0-10 V, 2-10 V
Programmable Functions	9 Quick Start, 68 Enhanced
Monitoring Functions	Three Phase Current, Three Phase Voltage, Power, kWh, Power Factor, Torque, Motor Thermal Capacity, Elapsed Time
Communications (optional)	RS232 / 485, Device Net, Profibus

\* UL/csa pending

## OPTIONS

- NEMA 1, 12, 4, 4X and 3R Enclosures
- Disconnecting Means
- Shunt Trip
- Input Fusing
- Dual Motor Starting
- Reversing Contactors
- Pushbuttons
- Switches
- Lights
- Full Horsepower Bypass
- In-Line Contactor
- Space Heater
- Oversized CPT
- Relay Logic Configurations
- Oversized Enclosures
- and Much More ...



## SA7 DIMENSIONS AND WEIGHTS

Size Amps	Dimensions	CHASSIS	NEMA 1	NEMA 1 Combination	NEMA 12 w/Bypass	NEMA 12 Combination
30 & 60	H X W X D in	17 X 13 X 11.25	20 X 16 X 12	24 X 20 X 12	24 X 20 X 12	24 X 20 X 12
	H X W X D mm	431 X 330 X 285	508 X 406 X 305	610 X 508 X 305	610 X 508 X 305	610 X 508 X 305
	lbs or kg	35 lbs 15.9 kg	67 lbs 30.4 kg	90 lbs 40.9 kg	90 lbs 40.9 kg	100 lbs 45.5 kg
85	H X W X D in	21 X 17 X 11.25	24 X 20 X 12	24 X 20 X 12	24 X 20 X 12	30 X 24 X 12
	H X W X D mm	533 X 432 X 286	610 X 508 X 305	610 X 508 X 305	610 X 508 X 305	762 X 610 X 305
	lbs or kg	35 lbs 15.9 kg	87 lbs 39.5 kg	105 lbs 47.7 kg	105 lbs 47.7 kg	134 lbs 60.8 kg
145	H X W X D in	21 X 17 X 11.25	24 X 20 X 12	30 X 24 X 12	30 X 24 X 12	30 X 24 X 12
	H X W X D mm	533 X 432 X 286	610 X 508 X 305	610 X 508 X 305	610 X 508 X 305	762 X 610 X 305
	lbs or kg	58 lbs 26.3 kg	99 lbs 44.9 kg	140 lbs 47.7 kg	140 lbs 47.7 kg	150 lbs 68.1 kg
180	H X W X D in	33 X 27 X 10	36 X 30 X 16	48 X 36 X 16	48 X 36 X 16	48 X 36 X 16
	H X W X D mm	838 X 685 X 254	914 X 762 X 406	1219 X 914 X 406	1219 X 914 X 406	1219 X 914 X 406
	lbs or kg	65 lbs 30 kg	160 lbs 75 kg	250 lbs 113 kg	250 lbs 113 kg	403 lbs 183 kg
240	H X W X D in	45 X 33 X 11	48 X 36 X 16	48 X 36 X 16	48 X 36 X 16	48 X 36 X 16
	H X W X D mm	1143 X 838 X 279	1219 X 914 X 406	1219 X 914 X 406	1219 X 914 X 406	1219 X 914 X 406
	lbs or kg	102 lbs 46 kg	229 lbs 104 kg	477 lbs 216 kg	477 lbs 216 kg	523 lbs 237 kg
360	H X W X D in	45 X 33 X 11	48 X 36 X 16	60 X 36 X 16	60 X 36 X 16	60 X 36 X 16
	H X W X D mm	1143 X 838 X 279	1219 X 914 X 406	1524 X 914 X 406	1524 X 914 X 406	1524 X 914 X 406
	lbs or kg	102 lbs 46 kg	229 lbs 104 kg	597 lbs 271 kg	597 lbs 271 kg	657 lbs 40.9 kg
500	H X W X D in	57 X 33 X 12.5	60 X 36 X 16	60 X 36 X 16	60 X 36 X 16	60 X 36 X 16
	H X W X D mm	1448 X 838 X 318	1524 X 914 X 406	1524 X 914 X 406	1524 X 914 X 406	1524 X 914 X 406
	lbs or kg	160 lbs 73 kg	337 lbs 171 kg	662 lbs 300 kg	662 lbs 300 kg	721 lbs 327 kg
800	H X W X D in	57 X 33 X 15	60 X 36 X 20	72 X 36 X 18	72 X 36 X 18	90 X 36 X 20
	H X W X D mm	1448 X 838 X 318	1524 X 914 X 508	1524 X 914 X 457	1524 X 914 X 457	2286 X 914 X 327
	lbs or kg	206 lbs 93.5 kg	506 lbs 229 kg	725 lbs 329 kg	725 lbs 329 kg	850 lbs 385 kg



M O T O R C O M P A N Y

5100 N. IH 35 • Round Rock, Texas 78681 • 1-800-451-8798  
[www.tecowestinghouse.com](http://www.tecowestinghouse.com)