

# SOFT STARTERS



5 - 200 HP

(Shown with optional keypad)

Starting from  
**\$596**

## SSW07 Series

WEG SSW07 Soft Starters are designed to control the acceleration and deceleration of three-phase induction motors by controlling the voltage applied to the motor. The SSW07, with DSP control (Digital Signal Processor), provides great performance at motor starts and stops with an excellent cost-benefit relationship. The Weg Soft Starter is easy to set up and compact. The SSW07 incorporates many features that serve to protect your electric motor and the equipment it drives. Optional accessories make it possible to further customize the SSW07 to your application. A keypad, a communication interface or a motor PTC input can be added to meet the requirements of the application.

### Standard Features

- 5 to 200HP
- Universal voltage (220 to 575 VAC)
- 17 to 200 Amps
- Protected Chassis Enclosure
- Built-in bypass contactor
- Significant reduction of mechanical stresses on coupling and transmission devices (gearboxes, pulleys, gears, conveyors, etc.) during start
- Avoids the "water hammer" in pumps
- Easy operation, setup, maintenance and installation
- Operates in environments up to 55°C (with no derating)
- Integrated electronic motor protection
- Built-in bypass

Model Number	UL HP Rating			Nominal Amps	Dimensions (in.)			Price
	220/230V 3-ph	440/460V 3-ph	575V 3-ph		H	W	D	
SSW070017T5SZ	5	12.5	15	17	6.38	3.74	6.18	<b>\$596</b>
SSW070024T5SZ	7.5	15	20	24	6.38	3.74	6.18	<b>\$639</b>
SSW070030T5SZ	10	20	30	30	6.38	3.74	6.18	<b>\$660</b>
SSW070045T5SZ	15	30	40	45	8.2	5.57	7.94	<b>\$752</b>
SSW070061T5SZ	20	50	60	61	8.2	5.57	7.94	<b>\$848</b>
SSW070085T5SZ	30	60	75	85	8.2	5.57	7.94	<b>\$1,026</b>
SSW070130T5SZ	50	100	125	130	10.9	8.6	8.66	<b>\$1,288</b>
SSW070171T5SZ	60	125	175	171	10.9	8.6	8.66	<b>\$1,636</b>
SSW070200T5SZ	75	150	200	200	10.9	8.6	8.66	<b>\$1,939</b>

### Accessories

Part Number	Description	Price
<b>Keypads</b>		
HMI-LOCAL-SSW07	Optional Digital Keypad (fits option slot on face of housing)	<b>\$90</b>
HMI-REMOTE-SSW07	Remote Keypad Kit (includes remote mounting keypad and mounting hardware; for IP-54 or NEMA 12 applications; requires remote keypad cable, listed below)	<b>\$175</b>
<b>Keypad Cables</b>		
CAB-RS-1	Remote Keypad Cable 3.3ft.	<b>\$7</b>
CAB-RS-2	Remote Keypad Cable 6.6ft.	<b>\$9</b>
CAB-RS-3	Remote Keypad Cable 10ft.	<b>\$10</b>
CAB-RS-5	Remote Keypad Cable 16ft.	<b>\$13</b>
CAB-RS-7.5	Remote Keypad Cable 25ft.	<b>\$18</b>
CAB-RS-10	Remote Keypad Cable 33ft.	<b>\$20</b>
<b>Communications</b>		
KRS-232-SSW07	RS-232 Modbus Communication Module	<b>\$62</b>
KRS-485-SSW07	RS-485 Modbus Communication Module	<b>\$104</b>
CAB-COMM-3	Cable for RS-232 Communication Kit (DB9-DB9) - 3m	<b>\$39</b>
CAB-COMM-10	Cable for RS-485 Communication Kit (DB9-DB9) - 10m	<b>\$84</b>
<b>Kits</b>		
SSW07-VENT KIT-M2	Ventilation Kit M2 (Frame Size 2; 45 - 85A)	<b>\$26</b>
SSW07-VENT KIT-M3	Ventilation Kit M3 (Frame Size 3; 130 - 200A)	<b>\$48</b>
KIT-PTC-SSW07-MOTOR	PTC Module for Monitoring Motor Thermistor	<b>\$63</b>
KIT-IP20-SSW07	IP20 Terminal Covers for M3 (Frame Size 3, 130 - 200A)	<b>\$32</b>
KSDG2-SSW07	Superdrive G2 Kit (KRS-232-SSW07+ CAB-COMM-3 + CD-Software)	<b>\$116</b>
<b>Lug Kit (includes input and output lugs)</b>		
SSW07-LK130-200	SSW07- Lug Kit - Size 3 (130 - 200A)	<b>\$83</b>

### General Specifications

Power Source Voltage	220 to 575 VAC
Power Source Frequency	50 / 60 Hz (+/- 10%) or 45 - 66 Hz )
Control Voltage	110 to 240VAC (-15% to +10%), or 94 to 264 VAC
Enclosure	Plastic; IP20 in models from 17 to 85A Plastic; P00 in models from 130 to 200A (IP20 as option)
Control Method	Voltage variation over the load (three-phase induction motor)
Starting Duty Cycle (10 Starts / Hr)	300% (3 x I <sub>nom</sub> ) during 30s (10 starts per hour) [Requires Ventilation Kit for Sizes 45A to 200A]
Inputs (Digital)	3 Isolated Programmable Inputs
Relay Outputs	2 relays with NO contacts, 240VAC, 1A, programmable functions
Communication (Serial)	RS-232
Safety / Protections	Undercurrent, Programming Error, Current Imbalance, Serial Communication Error, Subcurrent Before Bypass, MMI Communication Error, External Defects, Overtemperature in Motor PTC, Locked Rotor, Excess Starting Time, Frequency Outside Tolerance, By-Pass Contact Open, Undervoltage in Control Supply, Motor Overload (class 5 to 30)
Standard Features	Voltage Ramp (Initial Voltage: 30% to 90%), Current Limitation (150% to 450% of SSW07 Rated Current), Starting Time (1 to 40s), Kick Start (Off - 0.2 to 2 sec), Deceleration Ramp (0 to 40s), Motor and Current Relation (50% to 100%), Faults Auto Reset, Thermal Memory Auto Reset, Factory Standard Reset, Soft Starter Built-In By-Pass
Programming Commands	On, Off / Reset and Parameterization (function Programming)
Display Readings	Motor Current (%Soft-Starter In), Soft-Starter Status, Motor Current (%Motor In), Digital Input and Output Status, Motor Current (A), Back Up of 4 Last Errors, Current Indication in each Phase R-S-T, Soft-Starter Software Version, Supply Network Frequency, Heatsink Temperature, Apparent Power Supplied to Load (kVA), Motor Thermal Protection Status
Ambient Temperature	0 - 55°C (32 - 131°F) Standard Operation at Rated Current
Humidity	0 - 90%, Non Condensing
Altitude	0 - 1000 m (3,300 ft) Standard Operation at Rated Current
Standards	UL 508 Standard - Industrial Control Equipment



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## SSW06 Series Soft Starter



## SSW06 Series Soft Starter

The SSW06 Soft Starters reduce torque in the powertrain by controlling the voltage delivered to the motor during startup. The operator interface has a high visibility LED display, which makes it easy to read the motor status from a distance, and it has a two-line sixteen-character LCD display that virtually eliminates the need for an instruction manual during setup and operation. The keypad provides start, stop, and reset controls, as well as the programming interface. The "copy" function stores two sets of parameters and can be used to download parameters to other SSW06's for easy "cloning" of multiple starters. Integral bypass contacts are engaged once the motor is at full voltage. This removes the SCRs from the motor control circuit and eliminates most of the power loss and heat dissipation.

### Standard Features

- 25 to 1500 HP
- Universal voltage input (220 to 575 V)
- Built-in bypass contactor
- LCD keypad
- Removable HMI with LED and LCD display
- Kick-Start function for high inertia loads
- Intelligent pumping system control
- Electronic motor protection
- Ambient temperature up to 55° C (131° F)

Model Number	UL HP Rating			Nominal Amps	Dimensions (in.)			Price
	230V 3-ph	460V 3-ph	575V 3-ph		H	W	D	
SSW060085T2257ESZ	25/30	50/60	75	85	14.6	5.2	9.6	\$1,317
SSW060130T2257ESZ	50	75/100	125	130	14.6	5.2	9.6	\$1,686
SSW060170T2257ESZ	60	125	150	170	17.3	8.8	11.0	\$2,030
SSW060205T2257ESZ	75	150	200	205	17.3	8.8	11.0	\$2,545
SSW060255T2257ESZ	100	200	250	255	21.6	14.6	12.3	\$3,417
SSW060312T2257ESZ	125	250	300	312	21.6	14.6	12.3	\$3,754
SSW060365T2257ESZ	150	300	350	365	21.6	14.6	12.3	\$4,146
SSW060412T2257ESZ	150	350	450	412	26	15	14	\$4,500
SSW060480T2257ESZ	200	400	500	480	26	15	14	\$5,576
SSW060604T2257ESZ	250	500	650	604	32	22	15	\$6,219
SSW060670T2257ESZ*	250	550	750	670	32	22	15	\$7,073*
SSW060820T2257ESZ*	350	700	850	820	32	22	15	\$8,354*
SSW060950T2257ESH1Z*	400	800	1050	950	36	23	14	\$12,641*
SSW060950T2257ESH2Z*	400	800	1050	950	36	23	14	\$12,641*
SSW061100T2257ESH2Z*	450	900	1200	1100	49	27	18	\$15,855*
SSW061400T2257ESH2Z*	550	1200	1500	1400	49	27	18	\$20,376*

\*Allow 9 week lead time

### Accessories

Part Number	Description	Price
<b>Keypads and Cables</b>		
HMI-SSW06-LCD	Standard Keypad with LED & LCD	\$96
KMR-SSW06	Remote Keypad Frame Kit	\$30
CAB-HMI-SSW06-1	Remote Keypad Cable 3.3ft.	\$16
CAB-HMI-SSW06-2	Remote Keypad Cable 6.6ft.	\$19
CAB-HMI-SSW06-3	Remote Keypad Cable 10ft.	\$21
CAB-HMI-SSW06-5	Remote Keypad Cable 16ft.	\$26
<b>Communications</b>		
KRS-485-SSW06	RS-485 Modbus Communication Module	\$90
<b>IP20 Kits</b>		
KIT IP20 SSW06 M2	SSW06 IP20 Terminal Covers - Size 2 (85 - 130A)	\$100
KIT IP20 SSW06 M3	SSW06 IP20 Terminal Covers - Size 3 (170 - 205A)	\$112
KIT IP20 SSW06 M4	SSW06 IP20 Terminal Covers - Size 4 (255 - 365A)	\$121
<b>Lug Kit</b>		
SSW06-LK085-130	SSW06- Lug Kit - Size 2 (85 - 130A) includes input and output lugs	\$47
SSW06-LK170-205	SSW06- Lug Kit - Size 3 (170 - 205A) includes input and output lugs	\$77
SSW06-LK255-365	SSW06- Lug Kit - Size 4 (255 - 365A) includes input and output lugs	\$139

### Specifications

Power Source Voltage	220 to 575 VAC (+10%, -15%)
Power Source Frequency	50 / 60 Hz (+/- 10%) or 45 - 66 Hz
Control Voltage	110 to 230VAC (-15% to +10%), or 94 to 264 VAC
Enclosure	Metal; IP00
Control Method	Voltage Ramp, Current Limit, or Pump Control
Starting Duty Cycle	300% of rated output for 30s (10 starts per hour maximum)
Inputs (Digital)	5 (24VDC) Isolated Programmable Inputs
Relay Outputs	2 relays with NO contacts, 250VAC, 1A, programmable functions 1 relay with NO + NC contacts, 250VAC, 1A, programmable functions
Analog Outputs	1 programmable output (11 bits): 0-10VDC 1 programmable output (11 bits): 0-20mA or 4-20mA
Communication (Serial)	Standard: RS-232; Optional: RS-485
Safety / Protective Features	Under voltage, phase fault, phase imbalance; over temperature; motor overload (I <sup>2</sup> t); external fault; copy function error; motor not connected; over voltage; programming error; communication error; keypad connection error; motor over current; motor over temperature (via thermistor input); self diagnosis error; excess current limit time; motor locked rotor; motor over/under current; current imbalance; power source frequency out of range; bypass contactor status; phase sequence
Standard Features	Built-in operator interface; local/remote operation; pump control function; copy function; integral bypass contactor; RS-232 interface; motor thermistor input; programmable: line voltage, initial voltage, accel/decel ramp, starting current limit, starting current limit and immediate under/over current limits, torque boost, motor O/L protection class, service factor
Keypad Commands	Start, Stop, Reset, and Programming Increase and Decrease Parameters
Display Readings	Soft-starter output current; motor current; line frequency (Hz); line voltage, soft-starter output voltage; active power (kW); apparent power (kVA); power factor; four last faults; firmware version; motor thermal protection; motor current indication for each phase
Ambient Temperature	0 - 55°C (32 - 131°F) Standard Operation at Rated Current
Humidity	0 - 90%, Non Condensing
Altitude	0 - 1000 m (3,300 ft) Standard Operation at Rated Current
Standards	UL 508 Standard - Industrial Control Equipment

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