



# SSW900 Series Soft Starters

## Overview

Soft starters are devices dedicated to the smooth acceleration and deceleration of three-phase induction motors by controlling the voltage applied to it, easing stresses on motors and mechanical equipment.

Combining convenience and innovation, the SSW900 is the right choice for complete motor protection and start/stop control. This line of soft starters allows easy and simple access to the configuration settings and application data.

Using a well structured menu interface, the SSW900 line provides an unprecedented experience of interactivity with the user, allowing adjustments and configurations with online parameter help right on the HMI. In addition, event logs with date and time set-up assistant are available. The equipment has a built-in bypass, which contributes to extending the life of the soft starter, optimizing space, and reducing heat dissipation inside electric panels.



## Features

- Universal voltage (220-575 VAC) Output range up to 950 amps (800hp)
- High-performance, removable graphic HMI: easy and intuitive setup and status interface with descriptions and units, customizable main screens with bar graphs or time graphs
- 3-phase, SCR control delivers a smooth and balanced start for your induction motors.
- 100% duty cycle allows continuous operation without cooldown between starts. (based on starts per hour)
- Ample I/O: 5 digital inputs, 3 relay outputs, 1 analog output, 1 PTC thermistor input with detachable terminals for easy wiring
- Built-in bypass: minimizes power loss and contributes to extending the life of the soft starter, optimizes space by eliminating the need for external contactors, and reduces heat dissipation inside electric panels
- Increases motor and machine mechanical equipment lifetime through elimination of mechanical shock
- Three braking methods to stop the motor and the load faster. Braking methods with or without an external contactor
- Standard connection (3 wires) or Inside Delta connection (6 wires) (130A and higher models only)
- Advanced features including programmable protections for overvoltage, undervoltage, voltage phase imbalance, phase sequence, and many more

- Advanced start/stop control methods such as voltage ramp+current limit, current ramp, torque control and pump control
- Bluetooth connection allows monitoring/parameter change via WEG WPS app
- Up to 412A sizes operate in environments up to 131°F [55°C] without current derating
- Integral motor thermal protection
- Limitation of voltage drop during start
- Real Time Clock with battery backup saves event log including date and time
- Communications options include Ethernet or Serial.
- Two option slots for communications or PT100 inputs
- USB port for easy WPS programming software connection. WPS provides configuration, monitoring, and SoftPLC programming in IEC61131-3 ladder
- Conformal coated circuit boards

## Optional Accessories

- Ethernet communication card- Dual port supports ModTCP or EtherNet/IP
- RS-485 communication card
- PT100 Temperature transducer module accepts up to 6 inputs.
- Ventilation kits for Frame B/C required for 10 starts per hour
- IP20 kit for frames C/D (130-412A)

## Applications

Typical examples of light/moderate loads

- Centrifugal pumps
- Immersed centrifugal pumps
- Blade vacuum pumps
- Screw compressors
- Paper refiners
- Sieving machines
- Mixers

Typical examples of heavy loads

- Stone crushers
- Centrifuges
- Wood chippers
- Wood slicing machines
- Conveyors
- Axial and centrifugal fans
- Ball mills (ceramic)
- Hammer mills

## Standards & Approvals





# SSW900 Series Soft Starters

## Selecting the Right Soft Starter - Up to 412A sizes

SSW900 Soft Starters – Selection – Steps 1 & 2 (of 4)					
<b>Step 1: Select the application from the list and follow that column down.</b>	<b>Typical Applications</b>				
	<b>Standard Duty</b>		<b>Medium Duty</b>		<b>Heavy Duty</b>
	Default Agitator Bow Thruster - Zero Pitch Compressor - Rotary Vane Compressor - Scroll Conveyor - Unloaded Fan - Low Inertia < 85A Feeder - screw Lathe machines Mixer - Unloaded	Molding Machine Plastic and textile machines Pump - Submersible Centrifugal Pump - Submersible Rotodynamic Saw - Band Transformers, voltage regulators	Ball mill Bow Thruster - Loaded Compressor - Centrifugal Compressor - Reciprocating Compressor - Rotary Screw Conveyor - Loaded Grinder Hammer mill Mills - Flour, etc. Mixer - Loaded Pelletizers	Pump - Positive displacement Reciprocating Pump - Positive displacement Rotary Screw Pump Jack Rolling mill Roots Blower Saw - Circular Screen - Vibrating Tumblers	Centrifuge* *For centrifuges make selection at I(A) = motor FLA x 2.3 Crusher Fan - High Inertia > 85A Shredder Wood chipper Press, flywheel

<b>Step 2: Confirm the rated starting capability of the soft start against the application.</b>	<b>Trip Class</b>	10	20	30
	<b>Rated Starting Capability</b>	3x Motor Current - 30s	4x Motor Current - 20s	4.5x Motor Current - 30s
	<b>Max Starts per Hour</b>	10 starts/hr	6 starts/hr	4 starts/hr

Index Rating Standard: AC53b:3-30: 330; Overcurrent = 3x soft starter rated current for 30s; SSW900 Frame B&C requires ventilation kit for 10 starts/hr



SSW900 Soft Starters – Selection – Step 3 (of 4)	
<b>Step 3: Consider the operating environment and make the model selection based on a higher horsepower rating.</b>	
<b>Height Above Sea Level</b>	Maximum altitude: 1000m (3281ft) above sea level - nominal conditions. From 1000 m to 4000m (3281ft to 13123ft) above sea level – current derating of 1% for each 100m (328ft) above 1000m (3281ft). From 2000 m to 4000m (656 ft to 13123ft) above sea level – voltage derating of 1.1 % for each 100m (328ft) above 2000m (6562ft).
<b>Operating Temperature</b>	Models up to 412A are rated for operation at a maximum temperature of 55°C [131°F] without derating.
<b>Increased Starts per Hour</b>	See Stellar Series SR33 or SR55 for more than 10 starts/hr



SSW900 Soft Starters – Selection – Step 4 (of 4)							
<b>Step 4: Based on motor hp and application trip class, choose the appropriate softstarter model. Verify the actual motor FLA vs. the softstarter FLA for the trip class by referencing the SSW900 user manual tables 7.3 - 7.6.</b>							
Motor Size			SSW900 Data		Soft Starter Size		
HP @			Class 10 Amps	Class 10 Frame Size	Class 10	Class 20	Class 30
230VAC*	460VAC*	575VAC*					
3	5	7.5	10	A	<a href="#">SSW900A0010T5E2B</a>	<a href="#">SSW900A0010T5E2B</a>	<a href="#">SSW900A0010T5E2B</a>
5	10	15	17	A	<a href="#">SSW900A0017T5E2B</a>	<a href="#">SSW900A0017T5E2B</a>	<a href="#">SSW900A0017T5E2B</a>
7.5	15	29	24	A	<a href="#">SSW900A0024T5E2B</a>	<a href="#">SSW900A0024T5E2B</a>	<a href="#">SSW900A0024T5E2B</a>
10	20	25	30	A	<a href="#">SSW900A0030T5E2B</a>	<a href="#">SSW900A0030T5E2B</a>	<a href="#">SSW900A0030T5E2B</a>
	25	30			<a href="#">SSW900B0045T5E2B</a>	<a href="#">SSW900B0045T5E2B</a>	<a href="#">SSW900B0045T5E2B</a>
15	30	40	45	B	<a href="#">SSW900B0045T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0061T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0061T5E2B</a> <sup>1</sup>
20	40	50	61	B	<a href="#">SSW900B0061T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0061T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0085T5E2B</a> <sup>1</sup>
30	50	75	85	B	<a href="#">SSW900B0085T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0085T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0085T5E2B</a> <sup>1</sup>
	60				<a href="#">SSW900B0105T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0105T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0105T5E2B</a> <sup>1</sup>
40	75	100	105	B	<a href="#">SSW900B0105T5E2B</a> <sup>1</sup>	<a href="#">SSW900B0105T5E2B</a> <sup>1</sup>	<a href="#">SSW900C0171T5E2B</a> <sup>1</sup>
50	100	125	130	C	<a href="#">SSW900C0130T5E2B</a> <sup>2</sup>	<a href="#">SSW900C0171T5E2B</a> <sup>2</sup>	<a href="#">SSW900C0171T5E2B</a> <sup>2</sup>
60	125	150	171	C	<a href="#">SSW900C0171T5E2B</a> <sup>2</sup>	<a href="#">SSW900C0171T5E2B</a> <sup>2</sup>	<a href="#">SSW900C0200T5E2B</a> <sup>2</sup>
75	150	200	200	C	<a href="#">SSW900C0200T5E2B</a> <sup>2</sup>	<a href="#">SSW900D0255T5E3B</a> <sup>2</sup>	<a href="#">SSW900D0255T5E3B</a> <sup>2</sup>
100	200	250	255	D	<a href="#">SSW900D0255T5E3B</a>	<a href="#">SSW900D0312T5E3B</a>	<a href="#">SSW900D0312T5E3B</a>
125	250	300	312	D	<a href="#">SSW900D0312T5E3B</a>	<a href="#">SSW900D0365T5E3B</a>	<a href="#">SSW900D0365T5E3B</a>
150	300	350	365	D	<a href="#">SSW900D0365T5E3B</a>	<a href="#">SSW900D0412T5E3B</a>	<a href="#">SSW900E0480T5E3B</a> <sup>3</sup>
150	350	400	412	D	<a href="#">SSW900D0412T5E3B</a>	<a href="#">SSW900E0604T5E3B</a> <sup>3</sup>	<a href="#">SSW900E0604T5E3B</a> <sup>3</sup>

Shaded cells indicate an upsized soft starter.

\* 230VAC=220-240VAC, 460VAC=440-480VAC, 575VAC=575VAC    1) With ventilation kit SSW0708900-KVT-2B    2) With ventilation kit SSW0708900-KVT-3C  
 3) Selected model for operating temperature of 40°C. For use in 55°C, derating is required. See SSW900 user manual table 7.3



# SSW900 Series Soft Starters

## Selecting the Right Soft Starter - 480A and larger sizes

SSW900 Soft Starters – Selection – Steps 1 & 2 (of 4)					
<b>Step 1: Select the application from the list and follow that column down.</b>	<b>Typical Applications</b>				
	<b>Standard Duty</b>		<b>Medium Duty</b>		<b>Heavy Duty</b>
	Default Agitator Bow Thruster - Zero Pitch Compressor - Rotary Vane Compressor - Scroll Conveyor - Unloaded Fan - Low Inertia < 85A Feeder - screw Lathe machines Mixer - Unloaded	Molding Machine Plastic and textile machines Pump - Submersible Centrifugal Pump - Submersible Rotodynamic Saw - Band Transformers, voltage regulators	Ball mill Bow Thruster - Loaded Compressor - Centrifugal Compressor - Reciprocating Compressor - Rotary Screw Conveyor - Loaded Grinder Hammer mill Mills - Flour, etc. Mixer - Loaded Pelletizers	Pump - Positive displacement Reciprocating Pump - Positive displacement Rotary Pump Jack Rolling mill Roots Blower Saw - Circular Screen - Vibrating Tumblers	Centrifuge* *For centrifuges make selection at I(A) = motor FLA x 2.3 Crusher Fan - High Inertia > 85A Shredder Wood chipper Press, flywheel
	<b>Step 2: Confirm the rated starting capability of the soft start against the application.</b>	<b>Trip Class</b>	10	20	30
<b>Rated Starting Capability</b>		3x Motor Current - 30s	4x Motor Current - 20s	4.5x Motor Current - 30s	
<b>Max Starts per Hour</b>		5 starts/hr	5 starts/hr	4 starts/hr	
Index Rating Standard: AC53b:3-30: 330; Overcurrent = 3x soft starter rated current for 30s					



SSW900 Soft Starters – Selection – Step 3 (of 4)	
<b>Step 3: Consider the operating environment and make the model selection based on a higher horsepower rating.</b>	
<b>Height Above Sea Level</b>	Maximum altitude: 1000 m (3281 ft) above sea level - nominal conditions. From 1000 m to 4000 m (3281 ft to 13123 ft) above sea level – current derating of 1 % for each 100 m (328 ft) above 1000 m (3281 ft). From 2000 m to 4000 m (6562 ft to 13123 ft) above sea level – voltage derating of 1.1 % for each 100 m (328 ft) above 2000 m (6562 ft).
<b>Operating Temperature</b>	Standard operating temperature is 40°C. From 40°C to 55°C (104°F to 131°F) you may consider a current reduction of 2% for each degree Celsius over 40°C (104°F) not exceeding the maximum of 55°C. Consult SSW900 user manual Table 7.3 for specific 55°C ratings.
<b>Increased Starts per Hour</b>	See Stellar Series SR33 or SR55 for more than 10 starts/hr



SSW900 Soft Starters – Selection – Step 4 (of 4)							
<b>Step 4: Based on motor hp and application trip class, choose the appropriate softstarter model. Verify the actual motor FLA vs. the softstarter FLA for the trip class by referencing the SSW900 user manual tables 7.3 - 7.6.</b>							
Motor Size			SSW900 Data		Soft Starter Size		
HP @			Class 10 Amps	Class 10 Frame Size	Class 10	Class 20	Class 30
230VAC*	460VAC*	575VAC*					
n/a	400	500	480	E	SSW900E0480T5E3B	SSW900E0604T5E3B	SSW900E0670T5E3B
	500	600	604	E	SSW900E0604T5E3B	SSW900E0670T5E3B	SSW900F0820T5E3B
	600	700	670	E	SSW900E0670T5E3B	SSW900F0820T5E3B	-
	700	800	820	F	SSW900F0820T5E3B	SSW900F0950T5E3B	-
	800	1000	950	F	SSW900F0950T5E3B	-	-
Shaded cells indicate an upsized soft starter.							

\* 230VAC=220-240VAC, 460VAC=440-480VAC, 575VAC=575VAC



# SSW900 Series Soft Starters

## WEG SSW900 Compact Soft Starters Selection Chart <sup>1, 4</sup>

Part Number	Price	Motor Volts	Motor HP	Soft Starter Amps	Frame Size <sup>5)</sup>	Dimensions (HxWxD) (in [mm])	Approx. Weight (lb [kg])	Drawing Link
<b>Input Power Supply: 3-Phase, 220 - 240VAC</b>								
<a href="#">SSW900A0010T5E2B</a> <sup>2</sup>	\$860.00	220 - 240VAC	3	10A	A	7.9 x 5.0 x 8.0 [200.7 x 127.0 x 203.2]	4.3	<a href="#">PDF</a>
<a href="#">SSW900A0017T5E2B</a> <sup>2</sup>	\$886.00		6	17A				<a href="#">PDF</a>
<a href="#">SSW900A0024T5E2B</a> <sup>2</sup>	\$975.00		7.5	24A				<a href="#">PDF</a>
<a href="#">SSW900A0030T5E2B</a> <sup>2</sup>	\$1,056.00		10	30A				<a href="#">PDF</a>
<a href="#">SSW900B0045T5E2B</a> <sup>2</sup>	\$1,226.00		15	45A	B	8.2 x 5.7 x 10.2 [208.3 x 144.8 x 259.1]	8.9	<a href="#">PDF</a>
<a href="#">SSW900B0061T5E2B</a> <sup>2</sup>	\$1,353.00		20	61A				<a href="#">PDF</a>
<a href="#">SSW900B0085T5E2B</a> <sup>2</sup>	\$1,719.00		30	85A				<a href="#">PDF</a>
<a href="#">SSW900B0105T5E2B</a> <sup>2</sup>	\$1,960.00		40	105A	C	10.9 x 8.8 x 11.1 [276.9 x 223.5 x 281.9]	14.4	<a href="#">PDF</a>
<a href="#">SSW900C0130T5E2B</a> <sup>2</sup>	\$2,200.00		50	130A				<a href="#">PDF</a>
<a href="#">SSW900C0171T5E2B</a> <sup>2</sup>	\$2,648.00		60	171A	D	13.0 x 8.9 x 11.1 [330.2 x 226.1 x 281.9]	28.3	<a href="#">PDF</a>
<a href="#">SSW900C0200T5E2B</a> <sup>2</sup>	\$3,320.00		75	200A				<a href="#">PDF</a>
<a href="#">SSW900D0255T5E3B</a> <sup>3</sup>	\$4,457.00		100	255A	E	22.6 x 15.4 x 10.2 [574.0 x 391.2 x 259.1]	83.7	<a href="#">PDF</a>
<a href="#">SSW900D0312T5E3B</a> <sup>3</sup>	\$4,896.00		125	312A				<a href="#">PDF</a>
<a href="#">SSW900D0365T5E3B</a> <sup>3</sup>	\$5,408.00		150	365A				<a href="#">PDF</a>
<a href="#">SSW900D0412T5E3B</a> <sup>3</sup>	\$5,869.00		200	412A	F	29.9 x 29.9 x 12.4 [759.5 x 759.5 x 315.0]	166.2	<a href="#">PDF</a>
<a href="#">SSW900E0480T5E3B</a> <sup>3</sup>	\$7,273.00		250	480A				<a href="#">PDF</a>
<a href="#">SSW900E0604T5E3B</a> <sup>3</sup>	\$8,111.00		300	604A	F	29.9 x 29.9 x 12.4 [759.5 x 759.5 x 315.0]	166.2	<a href="#">PDF</a>
<a href="#">SSW900E0670T5E3B</a> <sup>3</sup>	\$9,225.00		350	670A				<a href="#">PDF</a>
<a href="#">SSW900F0820T5E3B</a> <sup>3</sup>	\$10,896.00		820A					<a href="#">PDF</a>
<a href="#">SSW900F0950T5E3B</a> <sup>3</sup>	\$16,488.00		950A					<a href="#">PDF</a>
<b>Input Power Supply: 3-Phase, 440/480VAC</b>								
<a href="#">SSW900A0010T5E2B</a> <sup>2</sup>	\$860.00	440 - 480VAC	5	10A	A	7.9 x 5.0 x 8.0 [200.7 x 127.0 x 203.2]	4.3	<a href="#">PDF</a>
<a href="#">SSW900A0017T5E2B</a> <sup>2</sup>	\$886.00		12.5	17A				<a href="#">PDF</a>
<a href="#">SSW900A0024T5E2B</a> <sup>2</sup>	\$975.00		15	24A				<a href="#">PDF</a>
<a href="#">SSW900A0030T5E2B</a> <sup>2</sup>	\$1,056.00		20	30A				<a href="#">PDF</a>
<a href="#">SSW900B0045T5E2B</a> <sup>2</sup>	\$1,226.00		30	45A	B	8.2 x 5.7 x 10.2 [208.3 x 144.8 x 259.1]	8.9	<a href="#">PDF</a>
<a href="#">SSW900B0061T5E2B</a> <sup>2</sup>	\$1,353.00		40	61A				<a href="#">PDF</a>
<a href="#">SSW900B0085T5E2B</a> <sup>2</sup>	\$1,719.00		60	85A				<a href="#">PDF</a>
<a href="#">SSW900B0105T5E2B</a> <sup>2</sup>	\$1,960.00		75	105A	C	10.9 x 8.8 x 11.1 [276.9 x 223.5 x 281.9]	14.4	<a href="#">PDF</a>
<a href="#">SSW900C0130T5E2B</a> <sup>2</sup>	\$2,200.00		100	130A				<a href="#">PDF</a>
<a href="#">SSW900C0171T5E2B</a> <sup>2</sup>	\$2,648.00		125	171A	D	13.0 x 8.9 x 11.1 [330.2 x 226.1 x 281.9]	28.3	<a href="#">PDF</a>
<a href="#">SSW900C0200T5E2B</a> <sup>2</sup>	\$3,320.00		150	200A				<a href="#">PDF</a>
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<a href="#">SSW900D0312T5E3B</a> <sup>3</sup>	\$4,896.00		250	312A				<a href="#">PDF</a>
<a href="#">SSW900D0365T5E3B</a> <sup>3</sup>	\$5,408.00		300	365A				<a href="#">PDF</a>
<a href="#">SSW900D0412T5E3B</a> <sup>3</sup>	\$5,869.00		400	412A	F	29.9 x 29.9 x 12.4 [759.5 x 759.5 x 315.0]	166.2	<a href="#">PDF</a>
<a href="#">SSW900E0480T5E3B</a> <sup>3</sup>	\$7,273.00		500	480A				<a href="#">PDF</a>
<a href="#">SSW900E0604T5E3B</a> <sup>3</sup>	\$8,111.00		550	604A	F	29.9 x 29.9 x 12.4 [759.5 x 759.5 x 315.0]	166.2	<a href="#">PDF</a>
<a href="#">SSW900E0670T5E3B</a> <sup>3</sup>	\$9,225.00		650	670A				<a href="#">PDF</a>
<a href="#">SSW900F0820T5E3B</a> <sup>3</sup>	\$10,896.00	800	820A					<a href="#">PDF</a>
<a href="#">SSW900F0950T5E3B</a> <sup>3</sup>	\$16,488.00		950A					<a href="#">PDF</a>

Data continued on next page

Notes: 1) "HP" rating based on UL508. Use as a guide only. Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal Amps of starter.

2) For models from 10A to 200A: 110-240 VAC (-15% to +10%, or 94-264 VAC) control power supply required.

3) For models from 255A to 950A: 110-130 VAC (-15% to +10%, or 94-143 VAC) control power supply required.

4) For other technical data, please refer to WEG product manual.

5) Frames A to D:

\* Max. ambient temp. 131°F (55°C) without derating.

\* Standard duty cycle: 300% soft starter rated current x 30s, 10 starts/hr. Frame-B requires ventilation kit "SSW0708900-KVT-2B" & Frame-C requires ventilaiton kit "SSW0708900-KVT-3C"

Frames E & F

\* Max. ambient temp. 104°F (40°C) as a standard without derating. 2% output current derating every °C rise above 40°C (104°F), limited to max. 55°C (131°F).

Standard duty cycle: 300% soft starter rated current x 30s, 5 starts/hr.



# SSW900 Series Soft Starters

## WEG SSW900 Compact Soft Starters Selection Chart cont'd <sup>1, 4</sup>

Part Number	Price	Motor Volts	Motor HP	Soft Starter Amps	Frame Size <sup>5)</sup>	Dimensions (HxWxD) (in [mm])	Approx. Weight (lb [kg])	Drawing Link
<b>Input Power Supply: 3-Phase, 575VAC</b>								
<a href="#">SSW900A0010T5E2B</a> <sup>2</sup>	\$860.00	575VAC	7.5	10A	A	7.9 x 5.0 x 8.0 [200.7 x 127.0 x 203.2]	4.3	<a href="#">PDF</a>
<a href="#">SSW900A0017T5E2B</a> <sup>2</sup>	\$886.00		15	17A				<a href="#">PDF</a>
<a href="#">SSW900A0024T5E2B</a> <sup>2</sup>	\$975.00		20	24A				<a href="#">PDF</a>
<a href="#">SSW900A0030T5E2B</a> <sup>2</sup>	\$1,056.00		25	30A				<a href="#">PDF</a>
<a href="#">SSW900B0045T5E2B</a> <sup>2</sup>	\$1,226.00		40	45A	B	8.2 x 5.7 x 10.2 [208.3 x 144.8 x 259.1]	8.9	<a href="#">PDF</a>
<a href="#">SSW900B0061T5E2B</a> <sup>2</sup>	\$1,353.00		50	61A				<a href="#">PDF</a>
<a href="#">SSW900B0085T5E2B</a> <sup>2</sup>	\$1,719.00		75	85A				<a href="#">PDF</a>
<a href="#">SSW900B0105T5E2B</a> <sup>2</sup>	\$1,960.00		100	105A	C	10.9 x 8.8 x 11.1 [276.9 x 223.5 x 281.9]	14.4	<a href="#">PDF</a>
<a href="#">SSW900C0130T5E2B</a> <sup>2</sup>	\$2,200.00		125	130A				<a href="#">PDF</a>
<a href="#">SSW900C0171T5E2B</a> <sup>2</sup>	\$2,648.00		150	171A				<a href="#">PDF</a>
<a href="#">SSW900C0200T5E2B</a> <sup>2</sup>	\$3,320.00		200	200A	D	13.0 x 8.9 x 11.1 [330.2 x 226.1 x 281.9]	28.3	<a href="#">PDF</a>
<a href="#">SSW900D0255T5E3B</a> <sup>3</sup>	\$4,457.00		250	255A				<a href="#">PDF</a>
<a href="#">SSW900D0312T5E3B</a> <sup>3</sup>	\$4,896.00		300	312A				<a href="#">PDF</a>
<a href="#">SSW900D0365T5E3B</a> <sup>3</sup>	\$5,408.00		350	365A				<a href="#">PDF</a>
<a href="#">SSW900D0412T5E3B</a> <sup>3</sup>	\$5,869.00		450	412A	E	22.6 x 15.4 x 10.2 [574.0 x 391.2 x 259.1]	83.7	<a href="#">PDF</a>
<a href="#">SSW900E0480T5E3B</a> <sup>3</sup>	\$7,273.00		500	480A				<a href="#">PDF</a>
<a href="#">SSW900E0604T5E3B</a> <sup>3</sup>	\$8,111.00		600	604A				<a href="#">PDF</a>
<a href="#">SSW900E0670T5E3B</a> <sup>3</sup>	\$9,225.00		700	670A	F	29.9 x 29.9 x 12.4 [759.5 x 759.5 x 315.0]	166.2	<a href="#">PDF</a>
<a href="#">SSW900F0820T5E3B</a> <sup>3</sup>	\$10,896.00		850	820A				<a href="#">PDF</a>
<a href="#">SSW900F0950T5E3B</a> <sup>3</sup>	\$16,488.00		1000	950A				<a href="#">PDF</a>

Notes: 1) "HP" rating based on UL508. Use as a guide only. Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal Amps of starter.

2) For models from 10A to 200A: 110-240 VAC (-15% to +10%, or 94-264 VAC) control power supply required.

3) For models from 255A to 950A: 110-130 VAC (-15% to +10%, or 94-143 VAC) control power supply required.

4) For other technical data, please refer to WEG product manual.

5) Frames A to D:

\* Max. ambient temp. 131°F (55°C) without derating.

\* Standard duty cycle: 300% soft starter rated current x 30s, 10 starts/hr. Frame-B requires ventilation kit "SSW0708900-KVT-2B" & Frame-C requires ventilaiton kit "SSW0708900-KVT-3C"

Frames E & F

\* Max. ambient temp. 104°F (40°C) as a standard without derating. 2% output current derating every °C rise above 40°C (104°F), limited to max. 55°C (131°F).

Standard duty cycle: 300% soft starter rated current x 30s, 5 starts/hr.



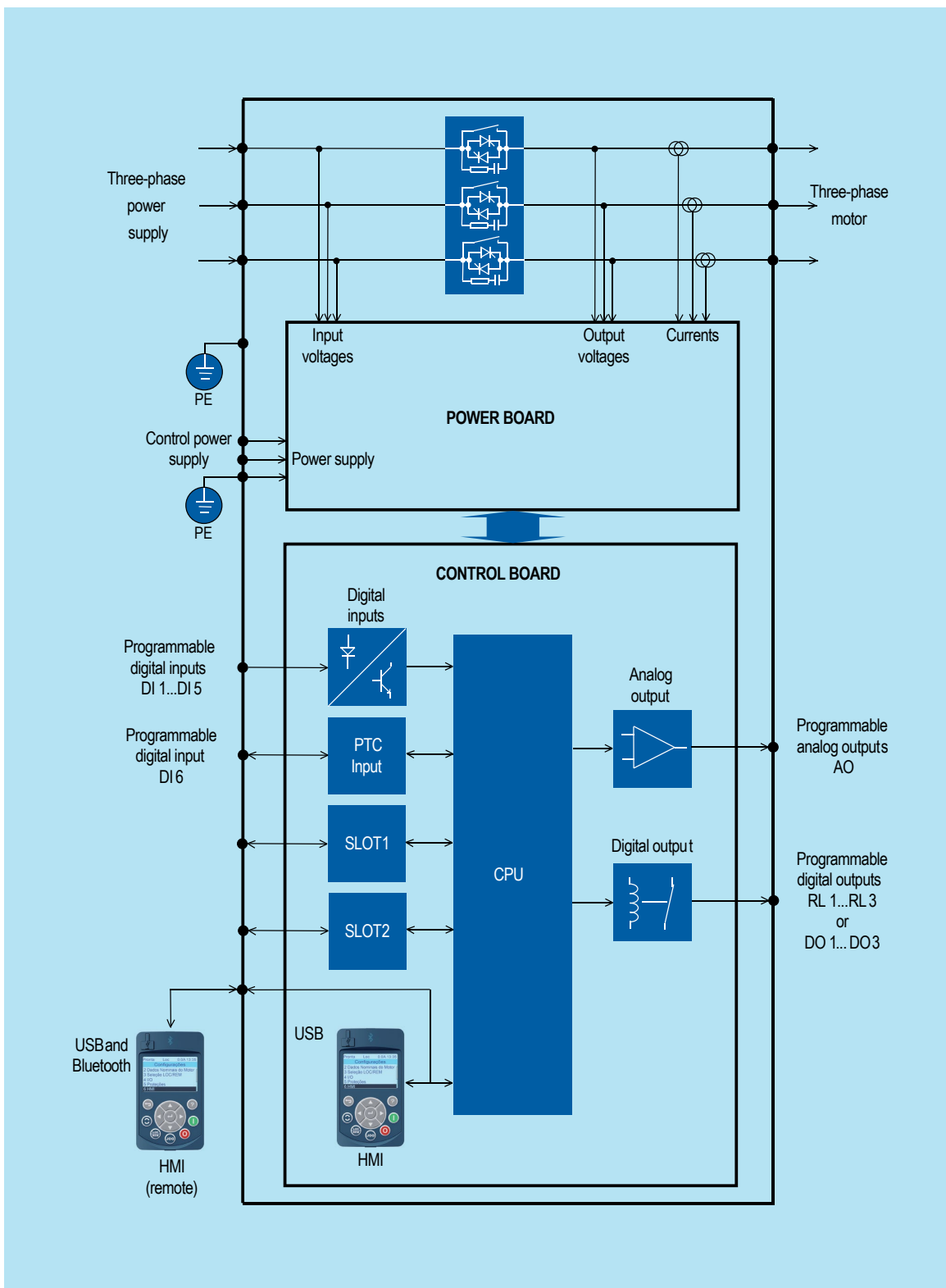
# SSW900 Series Soft Starters

## Specifications

WEG SSW900 Compact Soft Starters Specifications		
<b>Power Supply</b>	<b>Power</b>	220-575 VAC (-15% to +10%) or 187-632 VAC
	<b>Control Voltage</b>	10A to 200A models: 110-240 VAC (-15% to +10%), or 94-264 VAC 255A to 950A models: 110-130 VAC (-15% to +10%), or 94-143 VAC, or 220-240 VAC (-15% to +10%), or 177-264 VAC
	<b>Frequency</b>	50/60 Hz +/- 10%
	<b>Power Consumption</b>	10 A to 200 A models: 32VA 255A to 412A models: 70VA continuous, 700VA additional during the closing of the internal bypass 480A to 670A models: 90VA continuous, 700VA additional during the closing of the internal bypass 820A to 950A models: 140VA continuous, 800VA additional during the closing of the internal bypass
<b>Inputs</b>	<b>Digital</b>	5 isolated digital inputs Minimum high level: 18VDC Minimum low level: 3VDC Maximum voltage: 30VDC Input current: 11mA @ 24VDC Programmable functions
	<b>Inputs for Motor Thermistor</b>	1 input for thermistor Actuation: 3.9 kΩ, release: 1.6 kΩ Minimum resistance 100 Ω
<b>Outputs</b>	<b>Digital</b>	2 relays with NO contacts, 30VDC or 240VAC, 2A, programmable functions 1 relay with NO/NC contact, 30VDC or 240VAC, 2A, programmable functions
	<b>Analog</b>	1 analog output 0-10 VDC or 0/4-20 mA configurable by software
<b>HMI (Human Machine Interface)</b>	<b>Standard Bluetooth HMI</b>	12 keys: run/stop, forward/reverse, Jog, local/remote, navigation buttons: left, right, up, down, enter, back and help Graphic LCD display Allows monitoring/changing all SSW parameters Option for external mounting, panel door USB for firmware updates or communication with the product Bluetooth connection to monitor and change SSW parameters using smart phone App
<b>PC Connection for Programming</b>	<b>USB connector in the HMI</b>	USB standard rev. 2.0 (basic speed) Mini B-type USB plug Interconnecting cable: shielded USB cable, standard host/device shielded USB cable
<b>Conformities and Standards</b>	<b>Safety</b>	UL508 - industrial control equipment EN60947-4-2, 2014/35/EU - Low Voltage Directive
	<b>EMC</b>	CISPR 11 - industrial, scientific and medical (ISM) radio-frequency equipment - electromagnetic disturbance characteristics - limits and methods of measurement EN 61000-4-2 - electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 2: electrostatic discharge immunity test EN 61000-4-3 - electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 3: radiated, radio-frequency, electromagnetic field immunity test EN 61000-4-4 - electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 4: electrical fast transient/burst immunity test EN 61000-4-5 - electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 5: surge immunity test EN 61000-4-6 - electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 6: immunity to conducted disturbances, induced by radio-frequency fields EN 61000-4-11 - electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 11: voltage dips, short interruptions and voltage variations immunity tests
	<b>Mechanical Construction Standards</b>	EN 60529 - degrees of protection provided by enclosures (IP code) UL50 - enclosures for electrical equipment IEC 60721-3-3 - classification of environmental conditions

# SSW900 Series Soft Starters

## Block Diagram





# SSW900 Series Soft Starters

## SSW900 Max UL Overcurrent Protection

SSW900 Series Soft Starters UL Maximum Overcurrent Protection Devices ≤480VAC*									
Soft Starter Model Number	Amp Rating	Standard Fault Short Circuit Rating ≤480V	Circuit Breaker (CB) - UL489 Any MCCB	Fuse Time-Delay	High Fault Short Circuit Rating ≤480V	Circuit Breaker (CB) - UL489 MCCB	Minimum Cabinet Dimensions		
							Width mm [in]	Height mm [in]	Depth mm [in]
<a href="#">SSW900A0010T5E2B</a>	10A	5kA	≤30A	ECSR50 Type RK5, 50A	65kA	WEG UBW225H 600V, 30A or EATON HFD3030L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900A0017T5E2B</a>	17A	5kA	≤40A		65kA	WEG UBW225H 600V, 40A or EATON HFD3040L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900A0024T5E2B</a>	24A	5kA	≤40A		65kA	WEG UBW225H 600V, 40A or EATON HFD3040L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900A0030T5E2B</a>	30A	5kA	≤40A		65kA	WEG UBW225H 600V, 40A or EATON HFD3040L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900B0045T5E2B</a>	45A	5kA	≤ 150	ECSR125 Type RK5, 125A	65kA	WEG UBW225H 600V, 150A or EATON HFD3150L	462 [18.19]	216 [8.50]	390.1 [15.36]
<a href="#">SSW900B0061T5E2B</a>	61A	5kA	≤ 200		65kA	WEG UBW225H 600V, 200A or EATON HFD3200L	462 [18.19]	216 [8.50]	390.1 [15.36]
<a href="#">SSW900B0085T5E2B</a>	85A	5kA	≤ 225		65kA	WEG UBW225H 600V, 225A or EATON HFD3225	462 [18.19]	216 [8.50]	390.1 [15.36]
<a href="#">SSW900B0105T5E2B</a>	105A	10kA	≤ 225		ECSR250 Type RK5, 250A	65kA	WEG UBW225H 600V, 225A or EATON HFD3225L	462 [18.19]	216 [8.50]
<a href="#">SSW900C0130T5E2B</a>	130A	10kA	≤ 350	ECSR350 Type RK5, 350A	65kA	WEG UBW400H, 600V, 350A or EATON HKD3350 or WEG UBW225H 600V, 225A or UBW250H 600V, 250A	784.1 [30.87]	334.5 [13.17]	391.7 [15.42]
<a href="#">SSW900C0171T5E2B</a>	171A	10kA	≤ 400		65kA	WEG UBW400H, 600V, 400A or EATON HKD3400 or UBW250H 600V, 250A or WEG UBW225H 600V, 225A	784.1 [30.87]	334.5 [13.17]	391.7 [15.42]
<a href="#">SSW900C0200T5E2B</a>	200A	18kA	≤ 400	ECSR600 Type RK5, 600A	65kA	WEG UBW400H, 600V, 400A or EATON HKD3400 or UBW250H 600V, 250A	784.1 [30.87]	334.5 [13.17]	391.7 [15.42]
<a href="#">SSW900D0255T5E3B</a>	255A	30kA	≤ 600	Class L, 500A	65kA	WEG UBW600H, 600V, 600A, or EATON HLD3600 or WEG UBW400H, 600V, 400A	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900D0312T5E3B</a>	312A	30kA	≤ 600	Class L, 700A	65kA	WEG UBW600H, 600V, 600A, or EATON HLD3600 or WEG UBW400H, 600V, 400A	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900D0365T5E3B</a>	365A	42kA	≤ 600		65kA	WEG UBW600H, 600V, 600A or 500A, or EATON HLD3600 or WEG UBW400H, 600V, 400A	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900D0412T5E3B</a>	412A	42kA	≤ 600	Class L, 1000A	65kA	WEG UBW600H, 600V, 600A or 500A, or EATON HLD3600 or WEG UBW400H, 600V, 400A	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900E0480T5E3B</a>	480A	42kA	≤ 1200	n/a	65kA	WEG UBW1200H, 600V, 1200A or EATON NGH312033E or WEG UBW600H, 600V, 600A or WEG UBW800H, 600V, 800A	1032 [40.63]	584.9 [23.03]	390.1 [15.36]
<a href="#">SSW900E0604T5E3B</a>	604A	42kA	≤ 1200		65kA	WEG UBW1200H, 600V, 1200A or EATON NGH312033E or WEG UBW800H, 600V, 800A	1032 [40.63]	584.9 [23.03]	390.1 [15.36]
<a href="#">SSW900E0670T5E3B</a>	670A	42kA	≤ 1200		65kA	WEG UBW1200H, 600V, 1200A or EATON NGH312033E or WEG UBW800H, 600V, 800A	1032 [40.63]	584.9 [23.03]	390.1 [15.36]
<a href="#">SSW900F0820T5E3B</a>	820A	85kA up to 480 VAC	≤ 1600	Class L, 2500A	These sizes are not rated by WEG.				
<a href="#">SSW900F0950T5E3B</a>	950A	85kA up to 480 VAC	≤ 1600						

\* Maximum trip ratings are for non-time-delay overcurrent protection devices.

\* Motor branch circuit protection must be based on MOTOR Full Load Current, and must comply with applicable local and national electrical codes. The 2008 NEC section 430.52 recommends a maximum of 175% (up to 225% absolute maximum) of motor FLC for time-delay fuses. (Class CC time-delay fuses are permitted up to the non-time-delay fuse maximum rating.)

table continued next page





# SSW900 Series Soft Starters

## SSW900 Max UL Overcurrent Protection

SSW900 Series Soft Starters UL Maximum Overcurrent Protection Devices 575VAC									
Soft Starter Model Number	Amp Rating	Standard Fault Short Circuit Rating $\leq 600V$	Circuit Breaker (CB) - UL489 Any MCCB	Fuse Time-Delay	High Fault Short Circuit Rating $\leq 600V$	Circuit Breaker (CB) - UL489 MCCB	Minimum Cabinet Dimensions		
							Width mm [in]	Height mm [in]	Depth mm [in]
<a href="#">SSW900A0010T5E2B</a>	10A	5kA	$\leq 30A$	ECSR50 Type RK5, 50A	18 kA	WEG UBW225H 600 V, 30 A or EATON HFD3030L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900A0017T5E2B</a>	17A	5kA	$\leq 40A$		18 kA	WEG UBW225H 600 V, 40 A or EATON HFD3040L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900A0024T5E2B</a>	24A	5kA	$\leq 40A$		18 kA	WEG UBW225H 600 V, 40 A or EATON HFD3040L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900A0030T5E2B</a>	30A	5kA	$\leq 40A$		18 kA	WEG UBW225H 600 V, 40 A or EATON HFD3040L	300 [11.81]	190.5 [7.50]	304.5 [11.99]
<a href="#">SSW900B0045T5E2B</a>	45A	5kA	$\leq 150$	ECSR125 Type RK5, 125A	18 kA	WEG UBW225H 600 V, 150 A or EATON HFD3150L	462 [18.19]	216 [8.50]	390.1 [15.36]
<a href="#">SSW900B0061T5E2B</a>	61A	5kA	$\leq 200$		18 kA	WEG UBW225H 600 V, 200 A or EATON HFD3200L	462 [18.19]	216 [8.50]	390.1 [15.36]
<a href="#">SSW900B0085T5E2B</a>	85A	5kA	$\leq 225$		18 kA	WEG UBW225H 600 V, 225 A or EATON HFD3225L	462 [18.19]	216 [8.50]	390.1 [15.36]
<a href="#">SSW900B0105T5E2B</a>	105A	10kA	$\leq 225$	ECSR250 Type RK5, 250A	18 kA	WEG UBW225H 600 V, 225 A or EATON HFD3225L	462 [18.19]	216 [8.50]	390.1 [15.36]
<a href="#">SSW900C0130T5E2B</a>	130A	10kA	$\leq 350$	ECSR350 Type RK5, 350A	30 kA	WEG UBW400H, 600 V, 350 A or EATON HKD3350	784.1 [30.87]	334.5 [13.17]	391.7 [15.42]
<a href="#">SSW900C0171T5E2B</a>	171A	10kA	$\leq 400$		30 kA	WEG UBW400H, 600 V, 400 A or EATON HKD3400	784.1 [30.87]	334.5 [13.17]	391.7 [15.42]
<a href="#">SSW900C0200T5E2B</a>	200A	18kA	$\leq 400$	ECSR600 Type RK5, 600A	30 kA	WEG UBW400H, 600 V, 400 A or EATON HKD3400	784.1 [30.87]	334.5 [13.17]	391.7 [15.42]
<a href="#">SSW900D0255T5E3B</a>	255A	30kA	$\leq 600$	Class L, 500A	42 kA	WEG UBW600L, 600 V, 600 A or EATON LDC3600	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900D0312T5E3B</a>	312A	30kA	$\leq 600$	Class L, 700A	42 kA	WEG UBW600L, 600 V, 600 A or EATON LDC3600	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900D0365T5E3B</a>	365A	42kA	$\leq 600$		42 kA	WEG UBW600L, 600 V, 600 A or EATON LDC3600	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900D0412T5E3B</a>	412A	42kA	$\leq 600$	Class L, 1000A	42 kA	WEG UBW600L, 600 V, 600 A or EATON LDC3600	839 [33.03]	340.6 [13.41]	422.9 [16.55]
<a href="#">SSW900E0480T5E3B</a>	480A	42kA	$\leq 1200$	n/a	These sizes are not rated by WEG.				
<a href="#">SSW900E0604T5E3B</a>	604A	42kA	$\leq 1200$						
<a href="#">SSW900E0670T5E3B</a>	670A	42kA	$\leq 1200$						
<a href="#">SSW900F0820T5E3B</a>	820A	85kA	$\leq 1600$	Class L, 2500A					
<a href="#">SSW900F0950T5E3B</a>	950A	85kA	$\leq 1600$						

\* Maximum trip ratings are for non-time-delay overcurrent protection devices.

\* Motor branch circuit protection must be based on MOTOR Full Load Current, and must comply with applicable local and national electrical codes. The 2008 NEC section 430.52 recommends a maximum of 175% (up to 225% absolute maximum) of motor FLC for time-delay fuses. (Class CC time-delay fuses are permitted up to the non-time-delay fuse maximum rating.)



# SSW900 Series Soft Starters

## SSW900 Max UL Overcurrent Protection

SSW900 Series Soft Starters UL Maximum Overcurrent Protection Devices Recommended WEG aR Fuses Per Phase for Standard Connection				
Soft Starter Model Number	Amp Rating	$I^2t$ of the SCR (A <sup>2</sup> s)	F1 FNH aR Blade Contacts	F1 FNHFE aR Flush End
<a href="#">SSW900A0010T5E2B</a>	10A	720	1 x FNH000-35K-A or 1 x FNH00-40K-A	n/a
<a href="#">SSW900A0017T5E2B</a>	17A	720	1 x FNH000-40K-A or 1 x FNH00-40K-A	
<a href="#">SSW900A0024T5E2B</a>	24A	4,000	1 x FNH000-80K-A or 1 x FNH00-80K-A	
<a href="#">SSW900A0030T5E2B</a>	30A	4,000	1 x FNH000-100K-A or 1 x FNH00-100K-A	
<a href="#">SSW900B0045T5E2B</a>	45A	8,000	1 x FNH000-125K-A or 1 x FNH00-125K-A	
<a href="#">SSW900B0061T5E2B</a>	61A	10,500	1 x FNH00-160K-A	
<a href="#">SSW900B0085T5E2B</a>	85A	51,200	1 x FNH00-250K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900B0105T5E2B</a>	105A	125,000	1 x FNH1-315K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900C0130T5E2B</a>	130A	97,000	1 x FNH1-400K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900C0171T5E2B</a>	171A	168,000	1 x FNH2-500K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900C0200T5E2B</a>	200A	245,000	1 x FNH2-630K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900D0255T5E3B</a>	255A	90,000	2 x FNH3-710K-A	1 x FNH3FEM-500Y-A
<a href="#">SSW900D0312T5E3B</a>	312A	238,000	1 x FNH3-800K-A	1 x FNH3FEM-700Y-A
<a href="#">SSW900D0365T5E3B</a>	365A	238,000	2 x FNH3-900K-A	1 x FNH3FEM-700Y-A
<a href="#">SSW900D0412T5E3B</a>	412A	320,000	2 x FNH3-1000K-A	1 x FNH3FEM-800Y-A
<a href="#">SSW900E0480T5E3B</a>	480A	320,000	n/a	1 x FNH23FEA-1000Y-A
<a href="#">SSW900E0604T5E3B</a>	604A	781,000		1 x FNH23FEA-1250Y-A
<a href="#">SSW900E0670T5E3B</a>	670A	1,125,000		1 x FNH23FEA-1400Y-A
<a href="#">SSW900F0820T5E3B</a>	820A	1,200,000		1 x FNH23FEA-1600Y-A
<a href="#">SSW900F0950T5E3B</a>	950A	2,530,000		1 x FNH23FEA-1800Y-A

\* Reference table - All fuse part numbers shown are WEG fuses, not available from [AutomationDirect.com](http://AutomationDirect.com)



# SSW900 Series Soft Starters

## SSW900 Max UL Overcurrent Protection

SSW900 Series Soft Starters UL Maximum Overcurrent Protection Devices Recommended WEG aR Fuses Delta Inside Connection with Fuses Outside the Delta*				
Soft Starter Model Number	Amp Rating	$I^2t$ of the SCR (A <sup>2</sup> s)	F2 FNH aR Blade Contacts	F2 FNHFE aR Flush End
<a href="#">SSW900A0010T5E2B</a>	10A	720	n/a	n/a
<a href="#">SSW900A0017T5E2B</a>	17A	720		
<a href="#">SSW900A0024T5E2B</a>	24A	4,000		
<a href="#">SSW900A0030T5E2B</a>	30A	4,000		
<a href="#">SSW900B0045T5E2B</a>	45A	8,000		
<a href="#">SSW900B0061T5E2B</a>	61A	10,500		
<a href="#">SSW900B0085T5E2B</a>	85A	51,200		
<a href="#">SSW900B0105T5E2B</a>	105A	125,000		
<a href="#">SSW900C0130T5E2B</a>	130A	97,000	1 x FNH2-630K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900C0171T5E2B</a>	171A	168,000	1 x FNH3-800K-A	1 x FNH3FEM-630Y-A
<a href="#">SSW900C0200T5E2B</a>	200A	245,000	1 x FNH3-1000K-A	1 x FNH3FEM-700Y-A
<a href="#">SSW900D0255T5E3B</a>	255A	90,000	n/a	2 x FNH3FEM-900Y-A
<a href="#">SSW900D0312T5E3B</a>	312A	238,000		1 x FNH3FEM-1000Y-A
<a href="#">SSW900D0365T5E3B</a>	365A	238,000		1 x FNH23FEA-1250Y-A
<a href="#">SSW900D0412T5E3B</a>	412A	320,000		1 x FNH23FEA-1400Y-A
<a href="#">SSW900E0480T5E3B</a>	480A	320,000		1 x FNH23FEA-1400Y-A
<a href="#">SSW900E0604T5E3B</a>	604A	781,000		1 x FNH23FEA-2000Y-A
<a href="#">SSW900E0670T5E3B</a>	670A	1,125,000		1 x FNH23FEA-2000Y-A
<a href="#">SSW900F0820T5E3B</a>	820A	1,200,000		4 x FNH23FEA-1400Y-A
<a href="#">SSW900F0950T5E3B</a>	950A	2,530,000		3 x FNH3FEM-1000Y-A

\* Reference table - All fuse part numbers shown are WEG fuses, not available from [AutomationDirect.com](http://AutomationDirect.com)

SSW900 Series Soft Starters UL Maximum Overcurrent Protection Devices Recommended WEG aR Fuses Delta Inside Connection with Fuses Inside the Delta				
Soft Starter Model Number	Amp Rating	$I^2t$ of the SCR (A <sup>2</sup> s)	F1 FNH aR Blade Contacts	F1 FNHFE aR Flush End
<a href="#">SSW900A0010T5E2B</a>	10A	720	n/a	n/a
<a href="#">SSW900A0017T5E2B</a>	17A	720		
<a href="#">SSW900A0024T5E2B</a>	24A	4,000		
<a href="#">SSW900A0030T5E2B</a>	30A	4,000		
<a href="#">SSW900B0045T5E2B</a>	45A	8,000		
<a href="#">SSW900B0061T5E2B</a>	61A	10,500		
<a href="#">SSW900B0085T5E2B</a>	85A	51,200		
<a href="#">SSW900B0105T5E2B</a>	105A	125,000		
<a href="#">SSW900C0130T5E2B</a>	130A	97,000	1 x FNH2-400K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900C0171T5E2B</a>	171A	168,000	1 x FNH2-500K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900C0200T5E2B</a>	200A	245,000	1 x FNH3-630K-A	1 x FNH3FEM-450Y-A
<a href="#">SSW900D0255T5E3B</a>	255A	90,000	1 x FNH3-630K-A	2 x FNH3FEM-500Y-A
<a href="#">SSW900D0312T5E3B</a>	312A	238,000	2 x FNH3-800K-A	1 x FNH3FEM-630Y-A
<a href="#">SSW900D0365T5E3B</a>	365A	238,000	2 x FNH3-800K-A	1 x FNH3FEM-630Y-A
<a href="#">SSW900D0412T5E3B</a>	412A	320,000	2 x FNH3-900K-A	1 x FNH3FEM-700Y-A
<a href="#">SSW900E0480T5E3B</a>	480A	320,000	n/a	2 x FNH3FEM-900Y-A
<a href="#">SSW900E0604T5E3B</a>	604A	781,000		2 x FNH3FEM-1100Y-A
<a href="#">SSW900E0670T5E3B</a>	670A	1,125,000		1 x FNH23FEA-1250Y-A
<a href="#">SSW900F0820T5E3B</a>	820A	1,200,000		1 x FNH23FEA-1400Y-A
<a href="#">SSW900F0950T5E3B</a>	950A	2,530,000		1 x FNH23FEA-1800Y-A

\* Reference table - All fuse part numbers shown are WEG fuses, not available from [AutomationDirect.com](http://AutomationDirect.com)

# SSW900 Series Soft Starters

## Accessories

SSW900 Series Accessories			
Part Number	Price	Description	Drawing Link
<a href="#"><u>SSW900-HMI-BLT</u></a>	\$214.00	WEG Electric SSW900 series remote Bluetooth HMI keypad, replacement. For use with WEG SSW900 series soft starters.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW900-KMD-CB05</u></a>	\$72.00	WEG Electric SSW900 series keypad mount, for use with WEG SSW900 series soft starters. (1) 16.4ft/5m cable included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW900-CETH-W</u></a>	\$423.00	WEG Electric SSW900 series communication module, EtherNet/IP, Modbus TCP and webserver, 2 ports, (2) Ethernet (RJ45) port(s). For use with WEG SSW900 series soft starters.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW900-CRS485-W</u></a>	\$106.00	WEG Electric SSW900 series communication module, Modbus RTU, 1 port, (1) RS-485 (4-pin terminal) port(s). For use with WEG SSW900 series soft starters. Removable terminal block included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW900-PT100-W</u></a>	\$267.00	WEG Electric SSW900 series temperature input module, RTD, 6-channel, 12-bit resolution, input RTD type(s): Pt100. For use with WEG SSW900 series soft starters. Removable terminal block included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW0708900-KVT-2B</u></a>	\$40.00	WEG Electric SSW07 series main cooling fan, 109 x 45 x 38mm, 24 VDC. For use with WEG SSW07 and SSW900 series 45-105A soft starters. Electrical connector included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW0708900-KVT-3C</u></a>	\$57.00	WEG Electric SSW07 series main cooling fan, 183 x 45 x 38mm, 24 VDC. For use with WEG SSW07 and SSW900 series 130-200A soft starters. Electrical connector included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW0708900-IP20-3C</u></a>	\$38.50	WEG Electric SSW07 series touch shield, for use with WEG SSW07 and SSW900 series 130-200A soft starters. Mounting hardware included. Provides IP20 protection rating.	<a href="#"><u>PDF</u></a>
<a href="#"><u>SSW0708900-IP20-4D</u></a>	\$80.00	WEG Electric SSW07 series touch shield, for use with WEG SSW07 and SSW900 series 255-412A soft starters. Mounting hardware included. Provides IP20 protection rating.	<a href="#"><u>PDF</u></a>

**SSW900-HMI-BLT**



**SSW900-KMD-CB05**



**SSW900-CETH-W**



**SSW900-CRS485-W**



**SSW900-PT100-W**



**SSW0708900-KVT-2B**



**SSW0708900-IP20-3C**





# SSW900 Series Soft Starters

## SSW900 Overcurrent Protection

Additional Accessories Recommended For Use With WEG SSW900 Series Soft Starters*								
Soft Starter Model Number	Amp Rating	Standard Fault Short Circuit Rating $\leq 600V$	Circuit Breaker (CB) - UL489 Any MCCB	Circuit Breaker	Class J Fuse	Class J Fuse Block	Class RK5 Fuse	Class L Fuse
<a href="#">SSW900A0010T5E2B</a>	10A	5kA	$\leq 30A$	<a href="#">G3P-030</a>	<a href="#">JDL30</a>	<a href="#">CH30J3I</a>	<a href="#">ECSR50</a>	not recommended
<a href="#">SSW900A0017T5E2B</a>	17A	5kA	$\leq 40A$	<a href="#">G3P-040</a>	<a href="#">JDL40</a>	<a href="#">CH30J3I</a>	<a href="#">ECSR50</a>	
<a href="#">SSW900A0024T5E2B</a>	24A	5kA	$\leq 40A$	<a href="#">G3P-040</a>	<a href="#">JDL40</a>	<a href="#">CH30J3I</a>	<a href="#">ECSR50</a>	
<a href="#">SSW900A0030T5E2B</a>	30A	5kA	$\leq 40A$	<a href="#">G3P-040</a>	<a href="#">JDL40</a>	<a href="#">CH30J3I</a>	<a href="#">ECSR50</a>	
<a href="#">SSW900B0045T5E2B</a>	45A	5kA	$\leq 150$	<a href="#">F3P-150</a>	<a href="#">JDL150</a>	<a href="#">JM60200-1CR-3</a>	<a href="#">ECSR125</a>	
<a href="#">SSW900B0061T5E2B</a>	61A	5kA	$\leq 200$	<a href="#">F3P-200</a>	<a href="#">JDL200</a>	<a href="#">JM60200-1CR-3</a>	<a href="#">ECSR125</a>	
<a href="#">SSW900B0085T5E2B</a>	85A	5kA	$\leq 225$	<a href="#">F3P-225</a>	<a href="#">JDL225</a>	<a href="#">JM60400-1CR-3</a>	<a href="#">ECSR125</a>	
<a href="#">SSW900B0105T5E2B</a>	105A	10kA	$\leq 225$	<a href="#">F3P-225</a>	<a href="#">JDL225</a>	<a href="#">JM60400-1CR-3</a>	<a href="#">ECSR225</a>	
<a href="#">SSW900C0130T5E2B</a>	130A	10kA	$\leq 350$	<a href="#">K3P-350</a>	<a href="#">JDL350</a>	<a href="#">JM60400-1CR-3</a>	<a href="#">ECSR350</a>	
<a href="#">SSW900C0171T5E2B</a>	171A	10kA	$\leq 400$	<a href="#">K3P-400</a>	<a href="#">JDL400</a>	<a href="#">JM60400-1CR-3</a>	<a href="#">ECSR350</a>	
<a href="#">SSW900C0200T5E2B</a>	200A	18kA	$\leq 400$	<a href="#">K3P-400</a>	<a href="#">JDL400</a>	<a href="#">JM60400-1CR-3</a>	<a href="#">ECSR600</a>	
<a href="#">SSW900D0255T5E3B</a>	255A	30kA	$\leq 600$	<a href="#">GCB600H-3AA600LL</a>	<a href="#">JDL600</a>	<a href="#">JM60600-1CR-3</a>	not recommended	***
<a href="#">SSW900D0312T5E3B</a>	312A	30kA	$\leq 600$	<a href="#">GCB600H-3AA600LL</a>	<a href="#">JDL600</a>	<a href="#">JM60600-1CR-3</a>		<a href="#">LCU700</a>
<a href="#">SSW900D0365T5E3B</a>	365A	42kA	$\leq 600$	<a href="#">GCB600H-3AA600LL</a>	<a href="#">JDL600</a>	<a href="#">JM60600-1CR-3</a>		<a href="#">LCU700</a>
<a href="#">SSW900D0412T5E3B</a>	412A	42kA	$\leq 600$	<a href="#">GCB600H-3AA600LL</a>	<a href="#">JDL600</a>	<a href="#">JM60600-1CR-3</a>		<a href="#">LCU1000</a>
<a href="#">SSW900E0480T5E3B</a>	480A	42kA	$\leq 1200$	<a href="#">GCB1200H-3ES1200LL</a>	***	***		***
<a href="#">SSW900E0604T5E3B</a>	604A	42kA	$\leq 1200$	<a href="#">GCB1200H-3ES1200LL</a>	***	***		
<a href="#">SSW900E0670T5E3B</a>	670A	42kA	$\leq 1200$	<a href="#">GCB1200H-3ES1200LL</a>	***	***		
<a href="#">SSW900F0820T5E3B</a>	820A	85kA up to 480 VAC	$\leq 1600$	<a href="#">WEG UBW2500L-ELSI1600-3A**</a>	***	***		
<a href="#">SSW900F0950T5E3B</a>	950A	85kA up to 480 VAC	$\leq 1600$	<a href="#">WEG UBW2500L-ELSI1600-3A**</a>	***	***	***	

\* Maximum trip ratings are for non-time-delay overcurrent protection devices.

\* Motor branch circuit protection must be based on MOTOR Full Load Current, and must comply with applicable local electrical codes. The 2008 NEC section 430.52 recommends a maximum of 175% (up to 225% absolute maximum) of motor FLC for time-delay fuses. (Class CC time-delay fuses are permitted up to the non-time-delay fuse maximum rating.)

\*\* WEG allows a maximum circuit breaker amperage of 1600A for these soft starters. 1200A is the maximum rating available at [AutomationDirect.com](#).

\*\*\* Not available at AutomationDirect

# WEG CFW/SSW Series Software

## CFW-WPS Software Package

WEG WPS is the versatile configuration software for all WEG products. The software is compatible with all CFW series AC drives and SSW07/SSW900 soft starters. Powerful features include:

- Configuration and Monitoring Wizards
- Custom Variable Monitoring Windows
- IEC 61131 Ladder Programming
- Advanced Trending & Diagnostics
- FW updates
- Automatic online software updates

And MORE!

WEG WPS requires a PC USB port or RJ45 port and appropriate cables or USB-485M kit. Each drive or softstarter series can connect to the software, through the methods noted below:

**CFW100:**

- USB via the CFW100-CUSB module
- RS485 via the CFW100-CRS485 module

**CFW300:**

- USB via the CFW300-CUSB module
- RS485 via the CFW300-CRS485 module
- RS232 via the CFW300-CRS232 module

**CFW320:**

- USB via the CFW320-CUSB module
- Ethernet via the CFW320-CETH module
- RS485 via the CFW320-CRS485 module
- RS232 via the CFW320-CRS232 module

**CFW500:**

- RS485 via the included CFW500-IO5 module or optional CFW500-CRS485-B module.
- USB via the CFW500-CUSB module
- Ethernet via the CFW500-CETH-IP or CFW500-CEMB-TCP module
- RS232 via the CFW500-CRS232 module

**SSW07:**

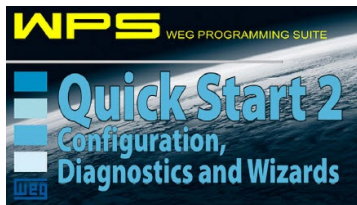
- RS485 via the SSW07-08-KRS-485 module
- RS232 via the SSW07-08-KRS-232 module

**SSW900:**

- USB with integrated USB port.
- Ethernet via the SSW900-CETH-W module
- RS485 via the SSW900-CRS485-W module

**See the WPS quick start videos for more information:**

- Drive Parameters: <https://www.automationdirect.com/VID-DR-0071>
- Configuration, Diagnostics, and Wizards: <https://www.automationdirect.com/VID-DR-0074>



WEG CFW500 Configuration Software					
Model #	Version	Price	Description	Features/Specifications	CFW500 Drive
CFW-WPS	USB Card	\$10.50	WEG Electric Windows Configuration Software: for all WEG CFW series AC drives and SSW07 and SSW900 series soft starters (PN# CFW-WPS)	USB card containing WEG WPS software.	All
	Download	Free		Download software for free through the AutomationDirect.com website: <ul style="list-style-type: none"> <li>• <a href="#">CFW-WPS Software</a></li> </ul>	

