

# SSW06



Designed for industrial or professional use, WEG SSW06 soft-starters are the ideal solution for the soft-start of electric motors in operations that require high overload capacity, robustness and excellent performance, as they have advanced control for the three motor phases, built-in bypass, torque control and customizable functions for different applications.

The SSW06 offers a current range from 10 to 1,400 A, a great variety of accessories and possibility to customize the operation by means of internal PLC (SoftPLC).

## Main Characteristics

- Fault diagnosis, recording: voltage, current and state of the soft-starter at the error event
- Actuation of the programmable faults
- 32-bit, RISC type, high-performance microcontroller
- Built-in electronic thermal relay
- Fully programmable control types
- Totally flexible torque control
- Limitation of current peaks on the line
- Limitation of voltage drops at the start
- Voltage (220 to 575 V ac) or (575 to 690 V ac)
- Switched-mode power supply of the electronics with EMC filter (94 to 253 V ac)
- Monitoring of the electronics voltage, allowing the backup of the motor thermal image values
- Protection against over and undervoltage on the motor
- Protection against voltage and current imbalance on the motor
- Protection against overload on the motor due to over and under: current, power or torque
- Input for the motor PTC
- Elimination of mechanical shocks
- Great reduction of the stresses on the couplings and driving devices (gear units, pulleys, gears, belts, etc.)
- Simpler electrical installation
- Oriented start-up
- Option of standard connection (3 cables) or motor inside delta connection (6 cables)
- All the protections and functions are available in the two connection types (unique on the market)
- Error-protection functions in serial or Fieldbus communication
- Change of speed direction
- JOG function in frequency for both speed directions without contactor
- Three braking methods to stop the motor and the load more quickly, with or without contactor
- Operation in environments at up to 55 °C (without current derating for model range 10 A to 820 A)
- Operation in environments at up to 40 °C (without current derating for model range 950 A to 1,400 A) above 40 °C

## Certifications



# Specification

SSW06 soft-starter			Maximum applicable motor <sup>1)</sup>											
Reference	Size	Rated current (A)	Power supply 220 V		Power supply 380 V		Power supply 440 V		Power supply 525 V		Power supply 575 V		Power supply 690 V	
			Power		Power		Power		Power		Power		Power	
			cv	kW	cv	kW	cv	kW	cv	kW	cv	kW	cv	kW
SSW060010T2257ESZ	1	10	3	2.2	6	4.5	7.5	5.5	7.5	5.5	10	7.5	-	-
SSW060016T2257ESZ		16	5	3.7	10	7.5	12.5	9.2	12.5	9.2	15	11	-	-
SSW060023T2257ESZ		23	7.5	5.5	15	11	15	11	20	15	20	15	-	-
SSW060030T2257ESZ		30	10	7.5	20	15	20	15	25	18.5	30	22	-	-
SSW060045T2257ESZ	2	45	15	11	30	22	30	22	40	30	40	30	-	-
SSW060060T2257ESZ		60	20	15	40	30	40	30	50	37	60	45	-	-
SSW060085T2257ESZ		85	30	22	60	45	60	45	75	55	75	55	-	-
SSW060130T2257ESZ		130	50	37	75	55	100	75	125	90	125	90	-	-
SSW060170T2257ESZ	3	170	60	45	125	90	125	90	150	110	175	132	-	-
SSW060205T2257ESZ		205	75	55	150	110	150	110	200	150	200	150	-	-
SSW060255T2257ESZ	4	255	100	75	175	132	200	150	250	185	250	185	-	-
SSW060312T2257ESZ		312	125	90	200	150	250	185	300	220	300	225	-	-
SSW060365T2257ESZ		365	150	110	250	185	300	225	350	260	400	300	-	-
SSW060412T2257ESZ	5	412	150	110	300	220	350	260	440	315	450	330	-	-
SSW060480T2257ESZ		480	200	150	350	260	400	300	500	370	500	370	-	-
SSW060604T2257ESZ		604	250	185	450	330	500	370	600	450	650	485	-	-
SSW060670T2257ESZ	6	670	250	185	500	370	550	410	650	485	750	550	-	-
SSW060820T2257ESZ		820	350	260	550	410	700	525	800	600	850	630	-	-
SSW060950T2257ESH1Z <sup>2)</sup>	7	950	400	300	750	550	800	600	900	670	1,050	775	-	-
SSW060950T2257ESH2Z <sup>2)</sup>		950	400	300	750	550	800	600	900	670	1,050	775	-	-
SSW061100T2257ESH2Z <sup>3)</sup>	8	1,100	450	330	800	600	900	670	1,100	810	1,200	900	-	-
SSW061400T2257ESH2Z <sup>3)</sup>		1,400	550	410	1,000	750	1,200	900	1,400	1,050	1,500	1,100	-	-
SSW060045T5769ESZ	2	45	-	-	-	-	-	-	-	-	-	-	50	37
SSW060060T5769ESZ		60	-	-	-	-	-	-	-	-	-	-	75	55
SSW060085T5769ESZ		85	-	-	-	-	-	-	-	-	-	-	100	75
SSW060130T5769ESZ	3	130	-	-	-	-	-	-	-	-	-	-	150	110
SSW060170T5769ESZ		170	-	-	-	-	-	-	-	-	-	-	220	165
SSW060205T5769ESZ	4	205	-	-	-	-	-	-	-	-	-	-	250	185
SSW060255T5769ESZ		255	-	-	-	-	-	-	-	-	-	-	340	250
SSW060312T5769ESZ		312	-	-	-	-	-	-	-	-	-	-	430	320
SSW060365T5769ESZ		365	-	-	-	-	-	-	-	-	-	-	470	350
SSW060412T5769ESZ	5	412	-	-	-	-	-	-	-	-	-	-	500	370
SSW060480T5769ESZ		480	-	-	-	-	-	-	-	-	-	-	600	450
SSW060604T5769ESZ		604	-	-	-	-	-	-	-	-	-	-	750	550
SSW060670T5769ESZ	6	670	-	-	-	-	-	-	-	-	-	-	850	630
SSW060820T5769ESZ		820	-	-	-	-	-	-	-	-	-	-	1,000	750
SSW060950T5769ESH1Z <sup>2)</sup>	7	950	-	-	-	-	-	-	-	-	-	-	1,150	860
SSW060950T5769ESH2Z <sup>2)</sup>		950	-	-	-	-	-	-	-	-	-	-	1,150	860
SSW061100T5769ESH2Z <sup>3)</sup>	8	1,100	-	-	-	-	-	-	-	-	-	-	1,300	1,000
SSW061400T5769ESH2Z <sup>3)</sup>		1,400	-	-	-	-	-	-	-	-	-	-	1,700	1,250

Notes: 1) The power ratings listed in the table above are for loads like centrifugal pumps and compressors (start in relief), based on WEG IV pole - 60 Hz motors.

The sizing must be based on the load curve, number of starts per hour and load type.

2) H1 = Control voltage 110 V / H2 = Control voltage 220 V.

3) 1,100 and 1,400 A models have control voltage of 220 V.

Visit our website [www.weg.net](http://www.weg.net) and use the free SDW software for sizing soft-starters.



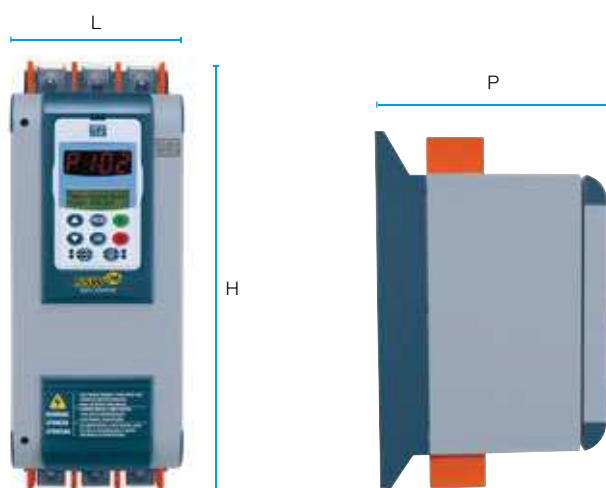
## Accessories

Reference	Description
HMI-SSW06-LCD	Remote Human-Machine Interface (IHM LCD)
KMR-SSW06	Frame kit for panel door installation
CAB-HMI-SSW06-1	1.0 m HMI communication cable
CAB-HMI-SSW06-2	5.0 m HMI communication cable
CAB-HMI-SSW06-3	3.0 m HMI communication cable
CAB-HMI-SSW06-5	5.0 m HMI communication cable
KRS-485	RS485 communication kit
KFB-DN-SSW06	DeviceNet communication kit
KFB-PD-SSW06	Profibus-DP communication kit
KFB-PD-PV1-SSW06	Profibus DP-V1 communication kit
KFB-DD-SSW06	DeviceNet Fieldbus profile drive communication kit
KFB-EN-SSW06	EtherNet/IP communication kit
KUSB	USB communication kit
KEIO	Expansion of digital inputs and outputs
KPT100	Pt-100 input kit
MIW02-P	RS232 to RS485 converter with galvanic isolation
IP20-SSW06-M2	IP20 protection kit for frame 2
IP20-SSW06-M3	IP20 protection kit for frame 3
IP20-SSW06-M4/5	IP20 protection kit for frames 4 and 5
IP20-SSW06-M6	IP20 protection kit for frame 6
TC255A	External current acquisition kit, 255 A
TC312A	External current acquisition kit, 312 A
TC365A	External current acquisition kit, 365 A
TC412A	External current acquisition kit, 412 A
TC480A	External current acquisition kit, 480 A
TC604A	External current acquisition kit, 604 A
TC670A	External current acquisition kit, 670 A
TC820A	External current acquisition kit, 820 A
TC950A	External current acquisition kit, 950 A
TC1100A	External current acquisition kit, 1,100 A
TC1400A	External current acquisition kit, 1,400 A





## Dimensions and Weights



Model	Width "L" (mm)	Height "H" (mm)	Depth "P" (mm)	Weight (kg)	Frame
10 A	130	256	182	3.3	1
16 A					
23 A					
30 A					
45 A	132	370	244	8.5	2
60 A					
85 A					
130 A					
170 A	223	440	278	18.6	3
205 A					
255 A	370	550	311	41.5	4
312 A					
365 A					
412 A					
480 A	370	650	347	55	5
604 A					
670 A					
820 A					
950 A	540	795	357	120	6
1,100 A	568	895	345	107	7
1,400 A	685	1,235	433	217.5	8