

# SSW900 - SOFT-STARTER

Power and full protection to the motor



# SSW900

## SOFT-STARTER

Soft-starters are devices dedicated to the smooth acceleration and deceleration of three-phase induction motors by controlling the voltage applied to it.

Combining convenience and innovation, the SSW900 is the right choice for a complete motor protection and start/stop control. Developed for industrial or professional use, the new line of soft-starters allows simple and quick access to application information and configuration settings.

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







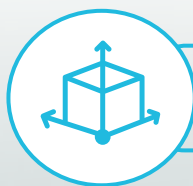
# POWER AND FULL PROTECTION TO THE MOTOR



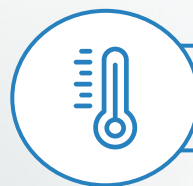
Connectivity



Electronic boards coating 3C2 as standard or 3C3 as optional, according to IEC60721-3-3



Smaller dimensions



Connection for motor thermistor (PTC)



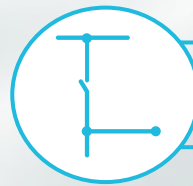
Fire mode (emergency start)



Graphic HMI



Optimal cost effectiveness



Built-in bypass

Certifications<sup>1)</sup>



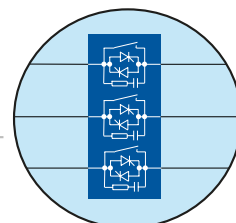
Note: 1) Please check with Sales Department regarding the certifications available.



# SSW900

## Characteristics

- Supply voltage from 220 to 575 V ac
- Oriented start-up
- Standard connection (3 cables) or motor inside delta connection (6 cables)
- Elimination of mechanical shocks
- Pump control function for smart control of pumping systems that prevent water hammer and pressure overshoots in the hydraulic piping
- Integral motor thermal protection
- Increased motor and equipment lifetime
- Reduction of voltage drops at the start
- Great mechanical stresses reduction on the couplings and transmission devices (gear boxes, pulleys, gears, belts, etc.) during the start
- Operation at ambient temperature up to 55 °C without current derating
- Three braking methods to stop the load faster
- Braking methods with or without a contactor
- Built-in bypass: minimizing power losses and heat dissipation in the thyristors, providing space reduction, contributing to energy saving and increasing the product's life, available in models from 10 to 670 A



## MORE + ADVANTAGES

The SSW900 can substitute direct online starters or star-delta starters, bringing benefits to your application, such as:

- Electric energy savings
- Greater protection and increased durability of the electric motor
- Diagnosis and fault history
- Flexibility, it allows the installation of accessories in the application (plug and play)
- Monitoring of the variables in graphical mode
- Customizable main screens



Menu navigation



Easy to install



Easy to operate



Simple monitoring

Note: 1) Models A to D.



## Easy to Use

### USB Port

Easy monitoring via PC or firmware updating

### Removable HMI

Possibility of installation on panel or machine door

Easy access to the control terminals: digital and analog inputs and outputs



Bluetooth connectivity<sup>1)</sup>

### RTC

Real time clock with event log including date and time

### Graphic HMI

Intuitive, customizable, complete

## Flexibility

### LED

Visual status indication

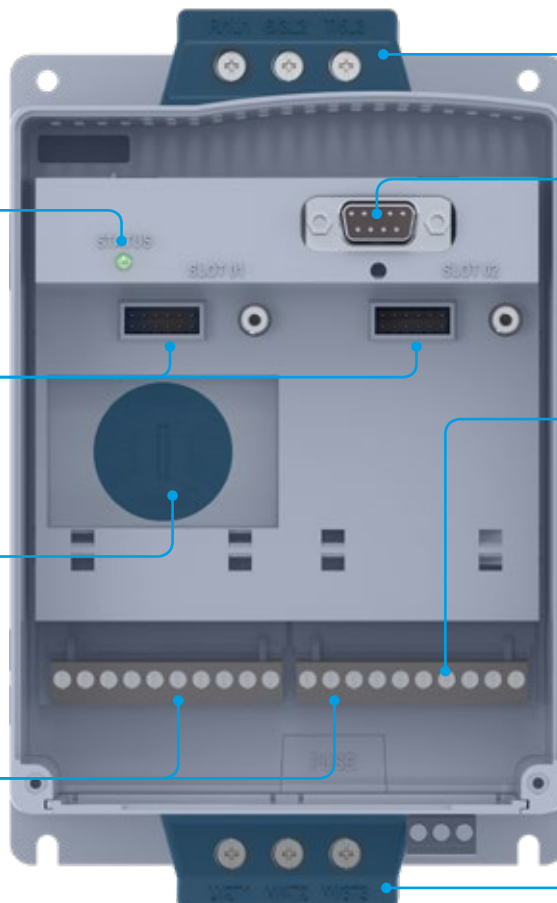
### Two Slots

Possibility to use two accessory modules

RTC (Real time clock) Battery

### Quick Connect

Easily detachable terminals



Power supply connection

HMI connection

### I/O

Totally programmable inputs and outputs

- 5 isolated **digital inputs** 24 V dc
- 1 **analog output** 0-10 V dc / 4-20 mA
- 1 **input** for motor PTC thermistor
- 3 **relay outputs** 1.0 A / 240 V dc

Motor connection

Note: 1) HMI with Bluetooth connectivity will be available soon as an accessory item.

## Adjustable Protections

The SSW900 uses advanced techniques to detect supply line and connection faults, allowing the user to choose the actuation mode of protections (fault or alarm) for total motor protection:

- Programmable protections for overvoltage, undervoltage, voltage imbalance between phases and phase sequence
- Programmable protections for motor overload and underload
- Thermal protections through Pt-100 reading and motor heating and cooling curves
- Overcurrent and undercurrent, current imbalance, undertorque and overtorque, underpower and overpower
- Protections against short-circuit on the power side
- Bypass protections (overcurrent, undercurrent and failure in the bypass contactor opening)
- Minimum time interval between starts
- Protections against communication faults
- Actuation of the programmable protections between fault or alarm
- Fault auto-reset

## Start and Stop Control Methods

The SSW900 offers, through its algorithm, flexibility and high performance control to meet application requirements on start and stop cycles of three-phase induction motors.

	Actuation	
	Start	Stop
Voltage ramp	✓	✓
Voltage ramp + current limit	✓	✗
Current limit	✓	✗
Current ramp	✓	✗
Pump control <sup>1)</sup>	✓	✓
Torque control <sup>2)</sup>	✓	✓
D.O.L SCR	✓	✗
Parada por inércia	✗	✓

Notes: 1) The setting of the function Pump Control is allowed for stopping the motor only when it is used at the starting as well.  
 2) The setting of the function Torque Control is allowed for stopping the motor only when it is used at the starting as well.

## Main Features



**Forward / Reverse**



**JOG**



**Kick-start**



### Fire mode (emergency start)

Allows starting and stopping the motor in emergency situations, even when any fault occurs, disregarding the SSW or motor protections. Used to drive hydraulic pumps for firefighting systems.



### High performance graphic HMI

Indication of all variables of the motor or SSW in an easy and intuitive way, using many units and formats, through bar graphs or time graphs.



### Diagnosis

Several status of the SSW are saved at certain moments to facilitate the diagnosis of faults and problems in the application or in the motor. For instance:

- Faults, with history of all faults and storage in CSV file
- Alarms, with history of all alarms and storage in CSV file
- Event history with storage in CSV file
- All saved information goes with RTC time and date stamp

Code	Description	Date and Time	Current I (A)	Current I (kA)	Current T (A)	A-line voltage (V)	S-line voltage (V)	T-line voltage (V)	Control voltage (V)	SSW Status
F001	Subtensão na alimentação do Motor	2018-09-05 09:02:24	3.7	3.7	22.1	236.7	234.8	232.3	234.9	26
F002	Tempo SSW Excedido	2018-09-05 09:02:18	3.7	3.7	3.3	247.4	246.2	246.2	234.7	26
F003	Desbalanceamento de Tensão no Motor	2018-09-02 17:23:02	3.1	3.1	3.3	229.7	228.2	224.7	234	26
F004	Falha de Fase no Partida do Motor	2018-09-02 17:23:17	3.2	3.2						26
F005	Falha de Fase no Partida do Motor	2018-09-02 17:23:19	3.2	3.2						26
F006	Subtensão no Motor	2018-09-04 09:24:23	3.7	3.7						26
F007	Falha de Fase no Partida do Motor	2018-09-04 09:24:05	3.7	3.7						26
F008	Subtensão na Alimentação do Motor	2018-09-04 09:24:05	3.8	3.8						26
F009	Subtensão na Alimentação do Motor	2018-09-04 09:24:05	3.8	3.8						26
F010	Subtensão na Alimentação do Motor	2018-09-04 09:24:05	3.8	3.8						26
F011	Subtensão na Alimentação do Motor	2018-09-04 09:24:05	3.8	3.8						26
F012	Desbalanceamento de Tensão no Motor	2018-09-04 09:24:05	3.2	3.2						26
F013	Desbalanceamento de Tensão no Motor	2018-09-04 09:24:05	3.2	3.2						26
F014	Desbalanceamento de Tensão no Motor	2018-09-04 09:24:05	3.2	3.2						26
F015	Desbalanceamento de Tensão no Motor	2018-09-04 09:24:05	3.2	3.2						26

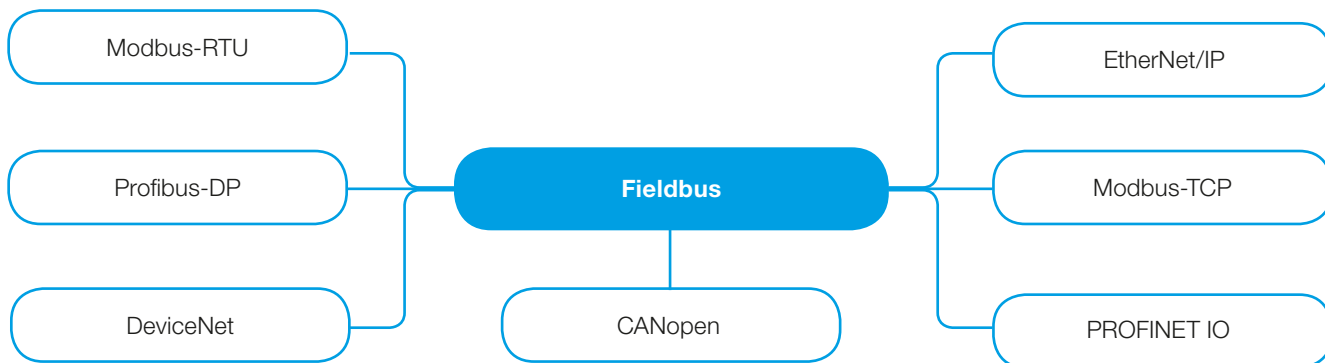


### Oriented Startup

Guides the user on how to program the SSW900 easily.

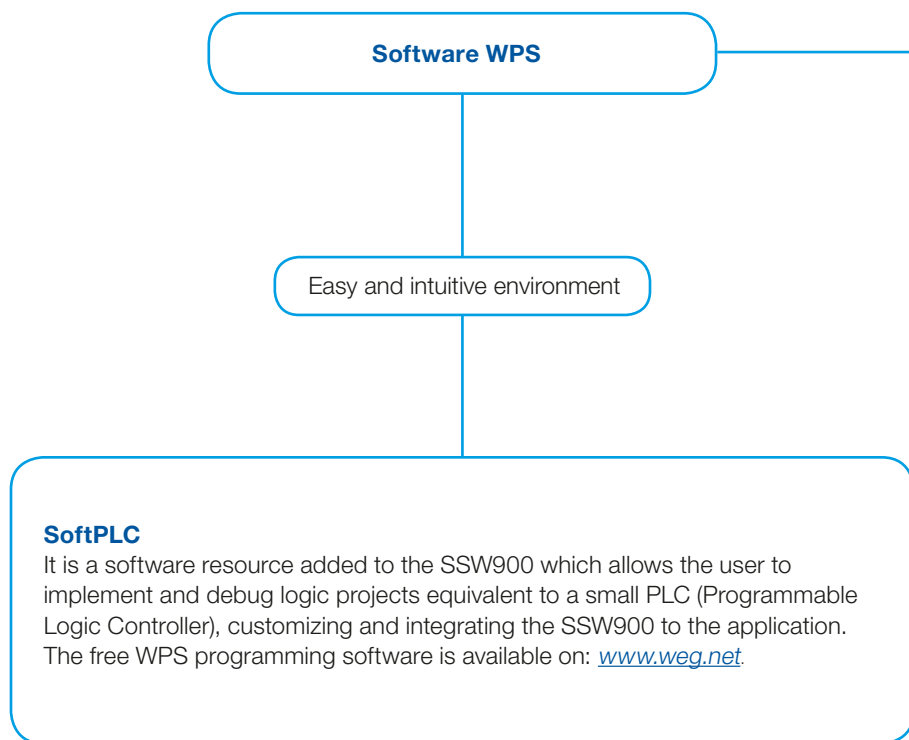
## Connectivity

The SSW900 can be integrated to the main Fieldbus industrial communication networks, such as Profibus-DP, DeviceNet and EtherNet/IP, using the appropriate plug-in module.

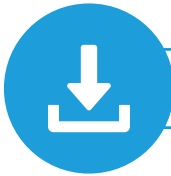


### WEG Programming Suite (WPS)

WPS is an integrated PC software that assists in the creation of automation applications allowing graphical monitoring, parameterization and programming in Ladder language (IEC 61131-3) of several WEG product families.



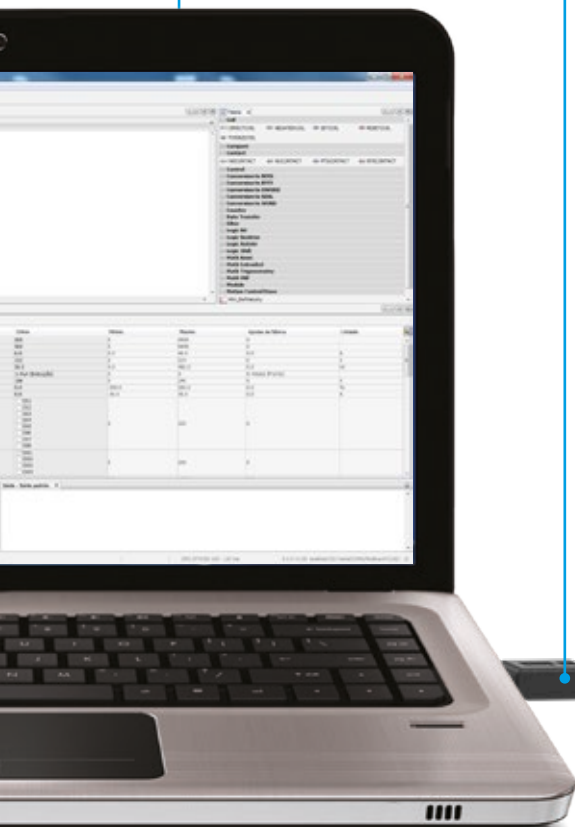




Free on the website: [www.weg.net](http://www.weg.net)

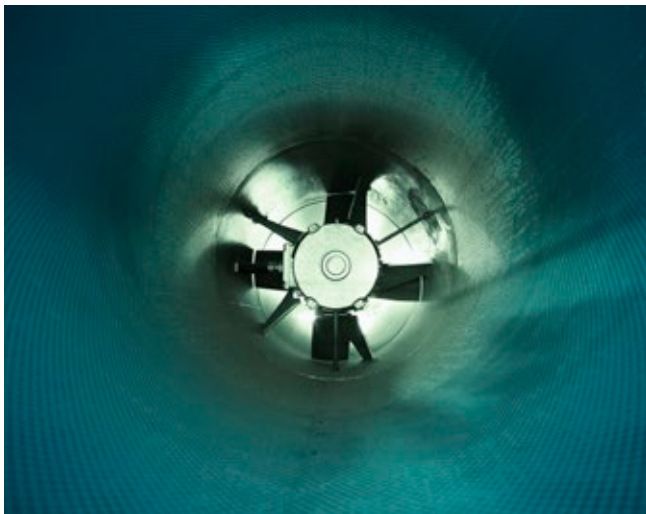
USB connector on the HMI,  
available on standard product

Bluetooth Communication<sup>1)</sup>




Note: 1) Smart HMI with Bluetooth connectivity will be available soon as an accessory item.

# Applications




**Cement and Mining**




- Dosing pumps
- Sifters / vibrating tables
- Dynamic graders
- Conveyor belts

**Chemical and Petrochemical**




- Fans / exhaust fans
- Centrifugal pumps
- Dosing pumps
- Centrifuges
- Stirrers / mixers
- Compressors
- Soap extruders

**Wood**




- Veneer machines
- Polishing machines
- Cutting machines
- Wood chippers
- Saw and plains

**Plastic and Rubber**



- Extruders
- Blowers
- Mixers
- Calenders
- Granulators

**Water & Wastewater**




- Centrifugal pumps
- Suppression systems

**Food & Beverage**




- Continuous centrifuges
- Roller tables
- Conveyor belts
- Bottling lines

**Ceramic**




- Fans / exhaust fans
- Continuous dryers / ovens
- Ball mills
- Roller tables
- Conveyor belts

**Steel and Metallurgy**




- Fans / exhaust fans
- Conveyors
- Drilling machines / grinders
- Pumps

**Glass**

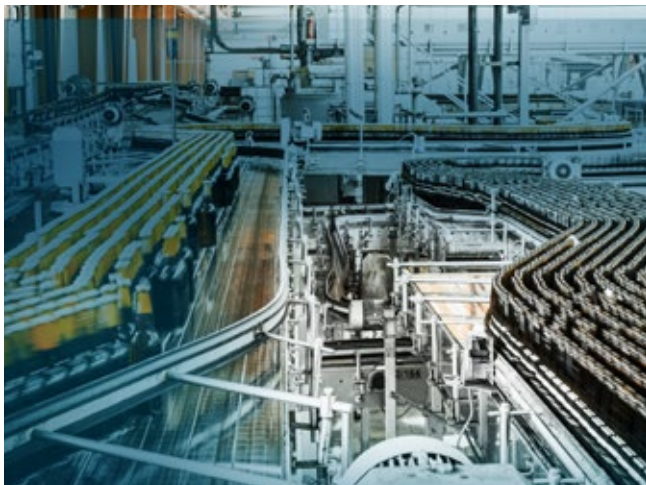


- Fans / exhaust fans
- Continuous dryers / ovens
- Roller tables

**Textile**



- Stirrers / mixers
- Dryers / washing machines



# Coding

- 1 SSW900
- 2 A
- 3 0010
- 4 T5
- 5 E2
- 6 ---
- 7 ---

**1 - Soft-Starter SSW900**

**2 - Frame size of the SSW900, according to the table below**

**3 - Rated output current, according to the table below**

Rated current	Frame size
0010 = 10 A	A
0017 = 17 A	
0024 = 24 A	
0030 = 30 A	
0045 = 45 A	B
0061 = 61 A	
0085 = 85 A	
0105 = 105 A	
0130 = 130 A	C
0171 = 171 A	
0200 = 200 A	
0255 = 255 A	
0312 = 312 A	D
0365 = 365 A	
0412 = 412 A	
0480 = 480 A	
0604 = 604 A	E
0670 = 670 A	

**4 - Rated power supply voltage**

T5	220 to 575 V
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**5 - Rated electronic supply voltage**

E1	Reserved
E2	110 - 240 V
E3	110 - 130 V <sup>1)</sup>
E4	220 - 240 V <sup>1)</sup>

Note: 1) Only for frame D and E.

**6 - Special hardware versions**

Blank	Electronic boards with class 3C2 standard coating
EC	Electronic boards with class 3C3 extra coating

**7 - Special software version**

Blank	Standard software
Sx	Special software





## Specification

The power ratings for the maximum applicable motor shown in the following tables are referential and valid for WEG 4-pole three-phase induction motors under light load conditions (e.g., centrifugal pump). Motor rated power may vary according to the motor data and application.

### Standard Connection (with 3 Cables)

Part number	Rated current (A)	Motor voltage 220/230 V		Motor voltage 380/400 V		Motor voltage 440/460 V		Motor voltage 525 V		Motor voltage 575 V	
	A	HP	kW	HP	kW	HP	kW	HP	kW	HP	kW
SSW900A0010T5E2	10	3	2.2	6	4.5	7.5	5.5	7.5	5.5	10	7.5
SSW900A0017T5E2	17	6	4.5	10	7.5	12.5	9.2	15	11	15	11
SSW900A0024T5E2	24	7.5	5.5	15	11	15	11	20	15	20	15
SSW900A0030T5E2	30	10	7.5	20	15	20	15	25	18.5	30	22
SSW900B0045T5E2	45	15	11	30	22	30	22	40	30	40	30
SSW900B0061T5E2	61	20	15	40	30	50	37	50	37	60	45
SSW900B0085T5E2	85	30	22	60	45	60	45	75	55	75	55
SSW900B0105T5E2	105	40	30	75	55	75	55	75	55	100	75
SSW900C0130T5E2	130	50	37	75	55	100	75	125	90	125	90
SSW900C0171T5E2	171	60	45	125	90	125	90	150	110	175	132
SSW900C0200T5E2	200	75	55	150	110	150	110	200	150	200	150
SSW900D0255T5Ex <sup>1)</sup>	255	100	75	175	132	200	150	250	185	250	185
SSW900D0312T5Ex <sup>1)</sup>	312	125	90	200	150	250	185	300	220	300	220
SSW900D0365T5Ex <sup>1)</sup>	365	150	110	250	185	300	225	350	260	400	300
SSW900D0412T5Ex <sup>1)</sup>	412	150	110	300	220	350	260	440	315	450	330
SSW900E0480T5Ex <sup>1)</sup>	480	200	150	350	260	400	300	500	370	500	370
SSW900E0604T5Ex <sup>1)</sup>	604	250	185	450	330	500	370	600	450	650	485
SSW900E0670T5Ex <sup>1)</sup>	670	250	185	500	370	550	410	650	485	750	550

Notes: 1) To select a SSW900 model with control voltage 110-130 V, replace "x" by 3 and to select a model with control voltage 220-240, replace "x" by 4.  
 Models ≤412 A: AC-53b 3-30:330, ambient temperature of 55 °C;  
 Models ≥480 A: AC-53b 3-30:690, ambient temperature of 40 °C;  
 Models of 45 A to 200 A: with ventilation kit;  
 WEG motors Premium or Plus, IV pole.

### Motor Inside Delta Connection (with 6 Cables)

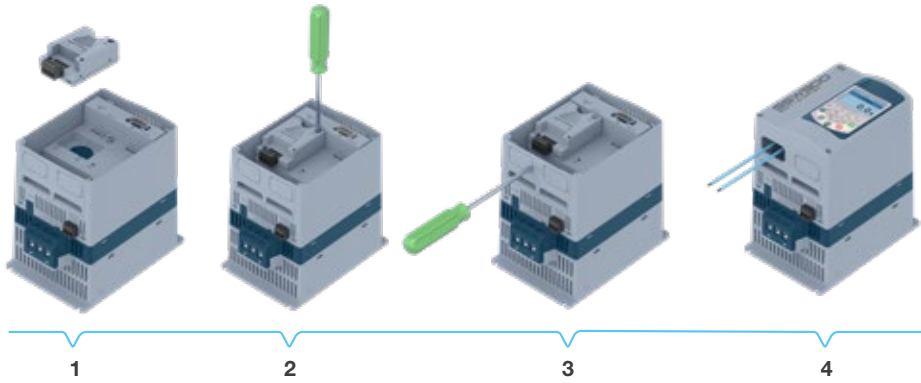
Model SSW900	Maximum applicable motor										
	Rated current (A)	Motor voltage 220/230 V		Motor voltage 380/400 V		Motor voltage 440/460 V		Motor voltage 525 V		Motor voltage 575 V	
	A	HP	kW	HP	kW	HP	kW	HP	kW	HP	kW
SSW900C0130T5E2	225	75	55	150	110	175	132	200	150	250	185
SSW900C0171T5E2	296	125	90	200	150	200	150	250	185	300	220
SSW900C0200T5E2	346	150	110	250	185	300	220	300	220	350	260
SSW900D0255T5Ex <sup>1)</sup>	441	175	132	300	220	350	260	400	300	450	330
SSW900D0312T5Ex <sup>1)</sup>	540	200	150	350	260	450	330	500	370	550	410
SSW900D0365T5Ex <sup>1)</sup>	631	250	185	450	330	500	370	600	450	650	485
SSW900D0412T5Ex <sup>1)</sup>	713	250	185	500	370	600	450	700	525	800	600
SSW900E0480T5Ex <sup>1)</sup>	831	350	260	600	450	700	525	800	600	900	670
SSW900E0604T5Ex <sup>1)</sup>	1,046	450	330	750	550	850	630	1,050	775	1,150	820
SSW900E0670T5Ex <sup>1)</sup>	1,160	500	370	850	630	950	700	1,150	820	1,250	920

Notes: 1) To select a SSW900 model with control voltage 110-130 V, replace "x" by 3 and to select a model with control voltage 220-240, replace "x" by 4.  
 Models ≤412 A: AC-53b 3-25:335, ambient temperature of 55 °C;  
 Models ≥480 A: AC-53b 3-25:695, ambient temperature of 40 °C;  
 Models of 130 A to 200 A: with ventilation kit;  
 WEG motors Premium or Plus, IV poles.

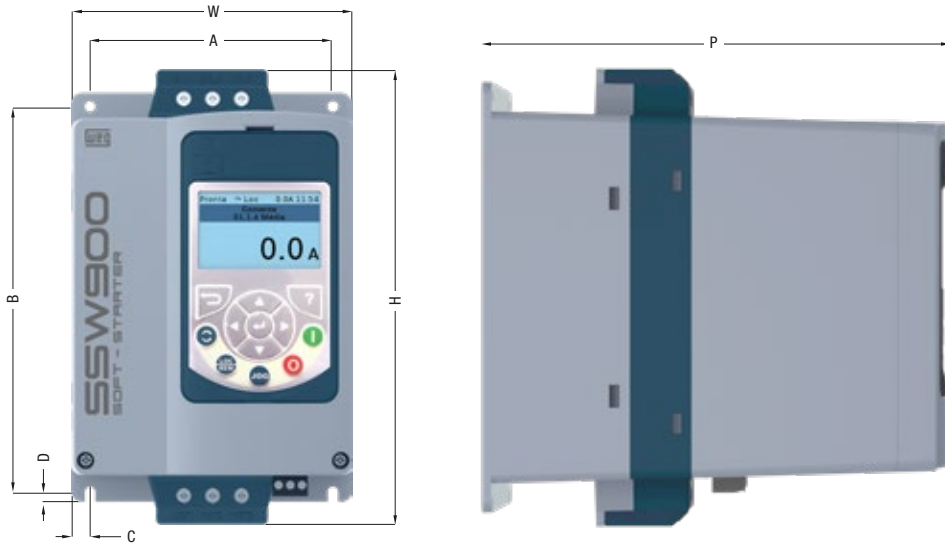
## Accessories

Accessory	Description	Image
<b>Accessories for communication and control - Slots 1 and 2</b>		
SSW900-CAN-W	CANopen and DeviceNet communication plug-in module	
SSW900-CETH-W	EtherNet/IP communication plug-in module with 2 ports	
SSW900-PT100-W	Temperature plug-in module for PT100 sensors - 6 channels	
<b>Accessories for mechanical installation</b>		
SSW0708900-KVT-2B	Ventilation kit for frame B (currents from 45 to 105 A)	
SSW0708900-KVT-3C	Ventilation kit for frame C (currents from 130 to 200 A)	
SSW0708900-IP20-3C	IP20 kit for frame C (currents from 130 to 200 A)	
SSW0708900-IP20-4D	IP20 kit for frame D (currents from 255 to 412 A)	
SSW0708900-KPT-3C	Front cover kit for power terminals of frame C (currents from 130 to 200 A)	
SSW0708900-KPT-4D	Front cover kit for power terminals of frame D (currents from 255 to 412 A)	
SSW900-KPT-E	Front cover kit for power terminals of frame E (currents from 480 to 670 A)	
<b>Other accessories</b>		
SSW900-KMD-CB01	Frame kit for HMI + 1 m cable	-
SSW900-KMD-CB02	Frame kit for HMI + 2 m cable	-
SSW900-KMD-CB03	Frame kit for HMI + 3 m cable	-
SSW900-KMD-CB05	Frame kit for HMI + 5 m cable	-
SSW900-KMD-CB07	Frame kit for HMI + 7,5 m cable	-
SSW900-KMD-CB10	Frame kit for HMI + 10 m cable	-
SSW900-KMD-CB20	Frame kit for HMI + 20 m cable	-
SSW900-KECA-10	Current acquisition kit for 10 A	-
SSW900-KECA-17	Current acquisition kit for 17 A	-
SSW900-KECA-24	Current acquisition kit for 24 A	-
SSW900-KECA-30	Current acquisition kit for 30 A	-
SSW900-KECA-45	Current acquisition kit for 45 A	-
SSW900-KECA-61	Current acquisition kit for 61 A	-
SSW900-KECA-85	Current acquisition kit for 85 A	-
SSW900-KECA-105	Current acquisition kit for 105 A	-
SSW900-KECA-130	Current acquisition kit for 130 A	-
SSW900-KECA-171	Current acquisition kit for 171 A	-
SSW900-KECA-200	Current acquisition kit for 200 A	-
SSW900-KECA-255	Current acquisition kit for 255 A	-
SSW900-KECA-312	Current acquisition kit for 312 A	-
SSW900-KECA-365	Current acquisition kit for 365 A	-
SSW900-KECA-412	Current acquisition kit for 412 A	-
SSW900-KB-E	Kit with six bars for frame E (currents from 480 to 670 A)	-

## Accessory Installation



## Dimensions and Weights



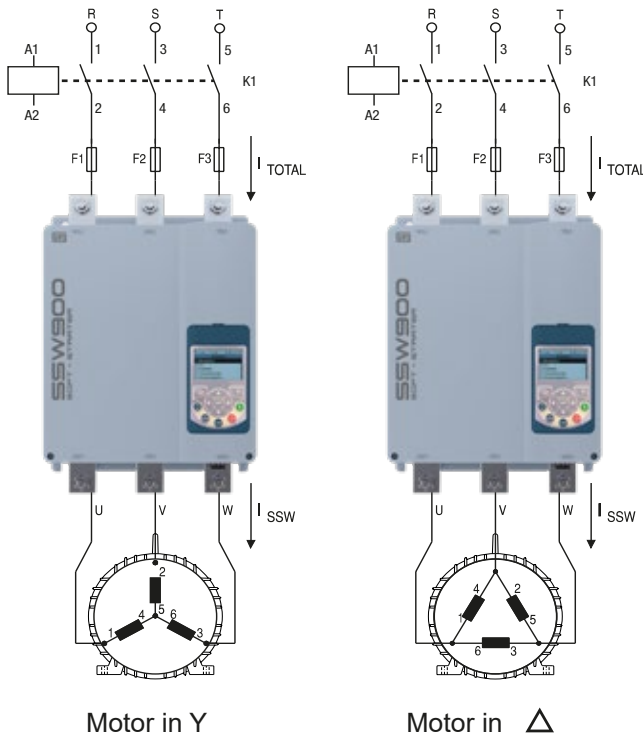
Frame size	Height (H) mm (in)	Width (W) mm (in)	Depth (P) mm (in)	(A) mm (in)	(B) mm (in)	(C) mm (in)	(D) mm (in)	Fastening screw	Weight (kg) (lb)	Degree of protection
A	200 (7.87)	127 (5)	203 (7.99)	110 (7.33)	175 (6.88)	8.5 (0.33)	4.3 (0.16)	M4	1.93 (4.25)	IP20
B	208 (8.18)	144 (5.66)	260 (10.23)	132 (5.19)	148 (5.82)	6 (0.23)	3.4 (0.13)	M4	4.02 (8.86)	IP20
C	276 (10.86)	223 (8.77)	261 (10.27)	208 (8.18)	210 (8.26)	7.5 (0.29)	5 (0.19)	M5	6.55 (14.44)	IP20 <sup>1)</sup>
D	331 (13.03)	227 (8.93)	282 (11.10)	200 (7.87)	280 (11.02)	15 (0.59)	9 (0.35)	M8	12.83 (28.28)	IP20 <sup>1)</sup>
E	575 (22.63)	390 (15.35)	260 (10.23)	270 (10.62)	480 (18.89)	56 (2.20)	10 (0.40)	M8	38 (83.75)	IP00

Note: IP20 with optional kit.



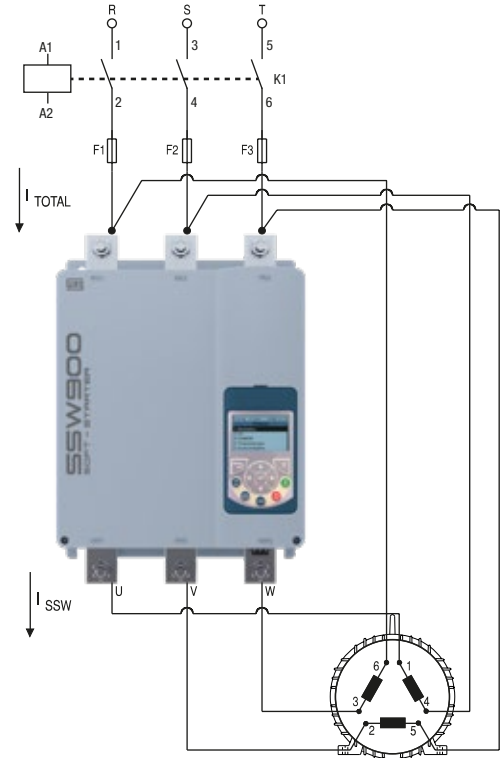
# Installation

## Standard (3 Cables)



$$I_{\text{Soft- Starter}} = I_{\text{Rated}}$$

## Inside Delta (6 Cables)

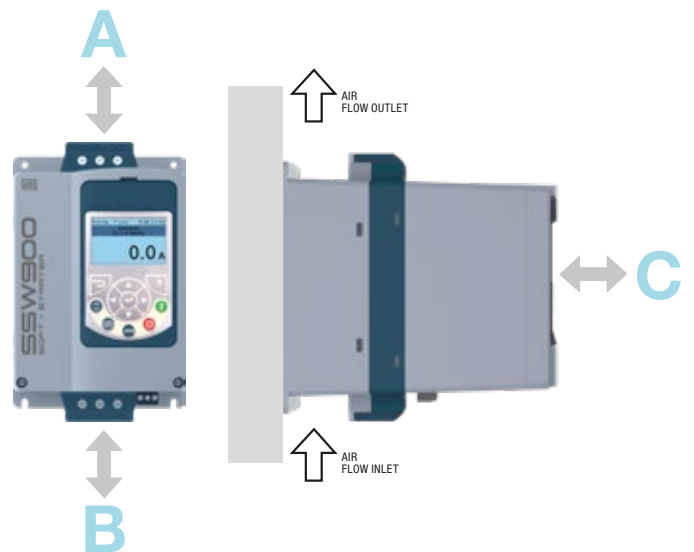


$$I_{\text{Soft- Starter}} = \frac{I_{\text{Rated}}}{\sqrt{3}} = 58\% \text{ of } I_{\text{Rated}} \text{ (After the start)}$$

$$I_{\text{Soft- Starter}} = \frac{I_{\text{Rated}}}{1.5} = 67\% \text{ of } I_{\text{Rated}} \text{ (During the start)}$$

## Minimum Free Spaces Recommended:

Frame size	A mm (in)	B mm (in)	C mm (in)
A	50 (2)	50 (2)	30 (1.2)
B	80 (3.2)	80 (3.2)	30 (1.2)
C	100 (4)	100 (4)	30 (1.2)
D	150 (6)	150 (6)	30 (1.2)
E	150 (6)	150 (6)	30 (1.2)



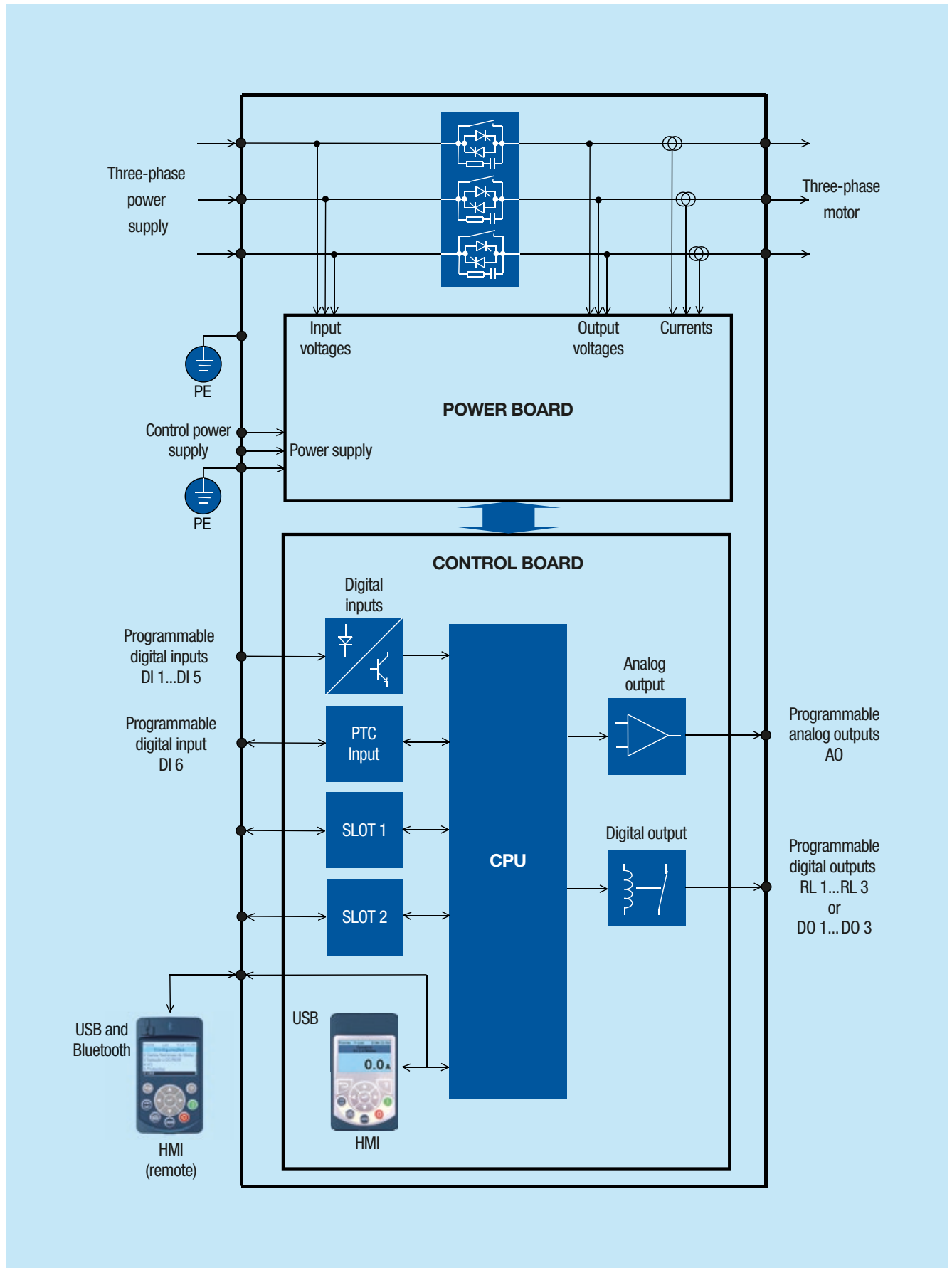
## Technical Specifications

Power supply	Power voltage (R/1L1, S/3L2, T/5L3)	220 to 575 V ac (-15% to +10%), or 187 to 632 V ac (standard and delta connection)
	Control voltage	10 A to 200 A models: 110 to 240 V (-15% to +10%), or 93.5 to 264 V ac 255 to 670 A models: 110 to 130 V (-15% to +10%), or 93.5 to 143 V ac, or 220 to 240 V (-15% to +10%), or 176.8 to 264 V ac
	Frequency	50 to 60 Hz ( $\pm 10\%$ )
	Power consumption	10 A to 200 A models: 18 VA 255 to 412 A models: 70 VA continuous, 800 VA additional during the closing of the internal bypass 480 A to 670 A models: 140 VA continuous, 800 VA additional during the closing of the internal bypass
Inputs	Digital	5 isolated digital inputs Minimum high level: 18 V dc Minimum low level: 3 V dc Maximum voltage: 30 V dc Input current: 11 mA @ 24 V dc Programmable functions
	Inputs for motor thermistor	1 input for thermistor Actuation: 3.9 k $\Omega$ , release: 1.6 k $\Omega$ Minimum resistance 100 $\Omega$
Outputs	Digital	2 relays with NO contacts, 240 V ac, 1 A, programmable functions 1 relay with NO/NC contact, 240 V ac, 1 A, programmable functions
	Analog	1 analog output 0 to 10 V or 0/4 to 20 mA configurable by software
HMI (Human Machine Interface)	Standard HMI	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 Possibility of external mounting, panel door USB for firmware updates or communication with the product
PC connection for programming	USB connector in the HMI	USB standard rev. 2.0 (basic speed) Mini B-type USB plug Interconnecting cable: shielded USB cable, standard host/device shielded USB cable

## Standards

Safety standards	UL508 - <i>industrial control equipment</i> EN60947-4-2, LVD 2006/95/EC - <i>low-voltage switchgear and controlgear</i>
Electromagnetic compatibility standards	CISPR 11 - <i>industrial, scientific and medical (ISM) radio-frequency equipment - electromagnetic disturbance characteristics - limits and methods of measurement</i> EN 61000-4-2 - <i>electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 2: electrostatic discharge immunity test</i> EN 61000-4-3 - <i>electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 3: radiated, radio-frequency, electromagnetic field immunity test</i> EN 61000-4-4 - <i>electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 4: electrical fast transient/burst immunity test</i> EN 61000-4-5 - <i>electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 5: surge immunity test</i> EN 61000-4-6 - <i>electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 6: immunity to conducted disturbances, induced by radio-frequency fields</i> EN 61000-4-11 - <i>electromagnetic compatibility (EMC) - part 4: testing and measurement techniques - section 11: voltage dips, short interruptions and voltage variations immunity tests</i>
Mechanical construction standards	EN 60529 - <i>degrees of protection provided by enclosures (IP code)</i> UL50 - <i>enclosures for electrical equipment</i> IEC 60721-3-3 - <i>classification of environmental conditions</i>

# Block Diagram







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