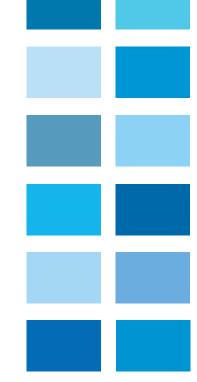
SSW07

Soft-Starter

Technical Catalogue
AUSTRALIA







SSW-07

The SSW-07, with DSP (Digital Signal Processor) control was designed for high performance motor soft start and protection with an excellent cost-benefit ratio. Easy to set up, it simplifies start-up activities and daily operation. The SSW-07 is compact, optimizing space in electric panels. Incorporating electric motor protection. It adapts to customer needs through its easy-to-install optional accessories. A keypad, communication interface or a motor PTC input can be added.

Benefits

- Reduction of mechanical stresses applied to the coupling and transmission devices (gearboxes, pulleys, gears, conveyors, etc) during the start;
- Increase in motor and machine mechanical equipment lifetime due to the reduction of mechanical stress;
- Easy operation, setup and maintenance;
- Simple electrical installation;
- Operation in environments up to 55°C (without current reduction for all models);
- Integral electronic motor protection;

- "Kick-Start" function for starting high inertia loads;
- Reduction of "Water Hammer" in pump applications;
- Limitation of voltage drop during start;
- Universal voltage (220 to 575 Vac);
- Switched mode power supply with EMC filter for the control electronics (110 to 240 Vac);
- Built-in by-pass providing size reduction and energy saving;
- Voltage monitoring of the electronics allows to back-up I x t values (thermal image).

Applications

CHEMICAL AND PETROCHEMICAL

- Fans / Exhaust fans
- Centrifugal Pumps
- Dosing / Process Pumps
- Stirrers / Mixers
- Compressors
- Soap Extruders

PLASTIC AND RUBBER

- Extruders
- Injectors / Blowers
- Mixers
- Rollers / Pullers
- Granulators

CERAMICS

- Fans / Exhaust fans
- Driers / Continuous Ovens
- Balls / Hammer Mills
- Roller Tables
- Conveyors

SUGAR AND ALCOHOL

- Fans / Exhaust fans
- Process Pumps
- Conveyors

CEMENT AND MINING

- Dosing/Process Pumps
- Pumps
- Sifters / Vibrating Tables
- Dynamic Separators
- Dosers

STEEL PLANTS

- Fans / Exhaust fans
- Conveyors
- Drills / Grinders
- Wire Drawing
- Pumps

PULP AND PAPER

- Dosing Pumps
- Process Pumps
- Fans / Exhaust fans
- Stirrers / Mixers
- Rotating Filters
- Rotating Ovens
- Wood Chip
- Conveyors
- Roller Table
- Coaters
- Paper Refineries

WATER & SANITATION

- Centrifugal Pumps
- Suppression Systems

WOOD

- Polishing Machines
- Cutters
- Wood Chippers
- Saws and Plains

LOAD TRANSPORTATION

- Conveyors / Belts / Chains
- Roller Tables
- Monorails
- Escalators
- Baggage Conveyors (Airports)

REFRIGERATION

- Process Pumps
- Fans / Exhaust fans
- Air Conditioning Systems
- Screw/Piston Compressors

TEXTILE

- Stirrers / Mixers
- Driers / Washing Machines

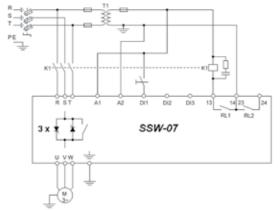
FOOD

- Dosing/Process Pumps
- Fan / Exhaust fans
- Stirrers / Mixers
- Driers / Continuous Ovens
- Pelletizers
- Conveyors / Monorails

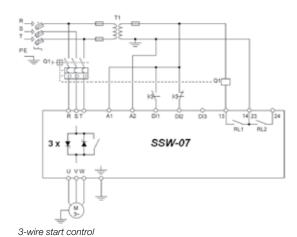
BEVERAGES

- Stirrers / Mixers
- Roller Tables
- Conveyors
- Bottling Lines

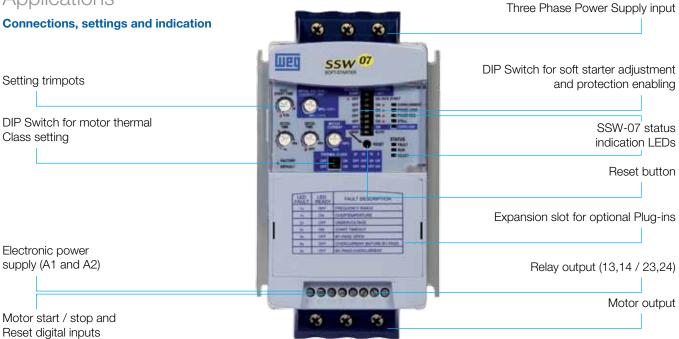
SSW-07 Typical Starter Connection Diagrams



2-wire start control



Applications



Accessories and Options

The SSW-07 soft-starters can be connected to fieldbus communication network through the most common protocols:



Mainly intended to integrate large plants with industrial automation, communication networks offer many advantages in the supervision, monitoring and on-line control of the soft-starters, providing high performance and great operational flexibility.

In order to integrate the SSW07 into communication networks with PROFIBUS DP or Device Net, the SSW-07 soft-starter offers plug-in accessories to install according to the desired protocol. For the Modbus RTU protocol, the connection can be done via RS-232 or RS-485 optional interfaces.

In addition to the protection monitoring advantages and motor control, it is also possible to control the digital soft-starter inputs and outputs from the PLC or master control.





SSW-07 - Human Machine Interface (HMI)

Operation interface with LED display (7 segments), which allows excellent long distance visibility. The HMI has a copy function incorporated, which allows copying of parameter from one soft-starter to others, allowing fast reliable setting of identical starters.

Plug-in type HMI.



SSW-07 local HMI

Remote

Remote HMI for mounting on panel door or machinery console.



SSW-07 remote HMI Cable for connecting HMI to SSW-07. Cable length: 10m.

Superdrive G2



Software in Windows platform for SSW-07 parameter setting, control and monitoring.

- Automatically identifies the SSW-07
- Reads SSW-07 parameters
- Writes parameters to the SSW-07
- Edits parameters on-line
- Edits parameters off-line in PC
- Enables creation of application documentation
- Easily accessible

- Enables parameter setting, control and monitoring
- Supplied with a 3m RS-232 serial cable on the Superdrive G2 software purchase
- Free version available at WEG's website www.weg.net

SSW-07 - Accessories and Options



Modbus RTU - RS - 232 Optional Plug-in type module for Mobus RTU communication in RS-232.



Modbus RTU - RS - 485 Optional Plug-in type module for Mobus RTU communication in RS-485.



Communication modules Profibus-DP via external gateway MFW-01/PD.





IP20 Kit For models from 130 A to 200 A, this kit guarantees protection against contact with energized parts.



Cable for connecting RS-232. Cable length in 3 and 10m.



Motor PTC Optional module for motor PTC connection.



Ventilation Kit For models from 45 A to 200 A. The ventilation kit is necessary for heavy duty starting cycle.

SSW-07 Programming Features

Settings necessary for starting any type of load are available via trimpots and dip-switches.

Voltage ramp

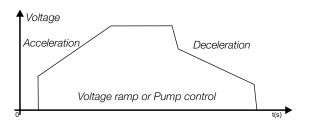
Allows smooth acceleration and deceleration, through voltage ramps.

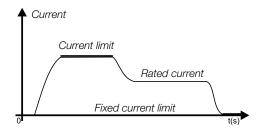
Current limit

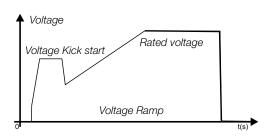
Allows the setting of current limit during acceleration, to prevent excessive current draw when starting load.

Voltage Kick Start

Enables an initial voltage pulse which provides an increase in the initial starting torque. This is required to start high torque loads.







d heat dissipation in ontributing to energy Three-phase power supply Three-phase motor

Built-in By Pass Contacts

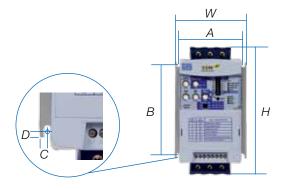
Built-in by-pass minimizes power losses and heat dissipation in the thyristors, providing size reduction and contributing to energy saving. This feature is available in all models.

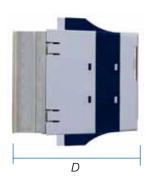
Dimensions and Weight

SSW-07 Model	H Height (mm)	W Width (mm)	D Depth (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Mounting Screw	Weight (kg)	Degree of Protection
17 A 24 A 30 A	162	95	157	85	120	5	4	M4	1.3	IP20
45 A 61 A 85 A	208	144	203	132	148	6	3.4	M4	3.3	IP20
130 A 171 A 200 A	276	223	220	208	210	7.5	5	M5	7.6	IP00 *
255 A 312 A 365 A 412 A	331	227	242	200	280	15	9	M8	11.5	IP00 *

Data for installation with dimensions in mm

*Option for IP20 Kit

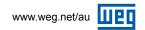






SSW-07 - Technical Characteristics

Power Supply
Prequency
Pige of protection Injected plastic case Pige in models from 17 to 85 A
Degree of protection Injected plastic case IP20 in models from 13 to 412 A (IP20 as option)
Control Method
Control Method Motor Voltage Variation
Control Types of Control Types of Control Types of Control Voltage ramp
Types of Control Voltage ramp Current limit Current limit Current limit
Current limit Starting Cycle (1) Normal 300% (3 x lnom.) during 30 s, 10 starts per hour (every 6 minutes)
Starting Cycle (1) Normal 300% (3 x lnom.) during 30 s, 10 starts per hour (every 6 minutes)
Digital Sisolated programmable inputs
Starting Duty Cycle Standard 17 - 30A 10 starts (1 every 6 minutes)
Stardard 17 - 30A
Stardard 17 - 30A
Starting Duty Cycle
Starting Duty Cycle With optional ventilation kit 45-200A Standard 255 - 412A Standard 255 - 412A Protections (Standard) Protections (Standard) Protections (Standard) Protections (With Accessory) Protection (With Accessory) Protections (With Accessory) Protection (With Accessory) Protections (With Accessory) Protections (Wi
Standard 255 - 412A Protections (Standard) Protections (Standard) Protections (Standard) Protections (Standard) Protections (Standard) Protections (Standard) Protections (with Accessory) Protections (with Accessory) Protections (with Accessory) Functions / Resources Standard Additional Functions / Resources Standard 10 starts (1 every 6 minutes) Overcurrent Overcurrent Overcurrent Overcurrent Phase loss Frequency outside tolerance By-pass contact open Overtemperature in power heatsink Undervortage in control supply Motor overload (class 5 to 30) Available with accessory Undercurrent Programming error Current imbalance Serial communication error Undercurrent before by-pass HMI communication error External fault Overtemperature in motor PTC Voltage ramp (initial voltage: 30% to 90%) Current limitation (150% to 450% of SSW-07 rated current) Starting time (1 to 40s) Motor and SSW-07 current relation (50% to 100%) Faults automatic-reset Thermal memory automatic-reset Thermal memory automatic-reset Factory standard reset Soft-starter built-in By-pass On, 0ff / Reset and Parameterization (function programming) Starting time up to 999s Deceleration time up to 999s Deceleration time up to 999s Selection for Local / Remote operation
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Additional Functions / Resources Program enabling password Selection for Local / Remote operation
Additional Functions / Resources Selection for Local / Remote operation
Selection for Local / Remote operation
COPY function (SSW-07 >>> HMI and HMI >>> SSW-07)
out i failulait (out of >>> thin and thin >>> out of)
Programmable rated voltage
Motor current (%Soft-Starter In)
Motor current (%motor in)
Programming Accessory
(HMI or Serial communication)
Current indication in each phase R-S-T
Supply network frequency
Supervision (Poarding) Apparent power supplied to load (kVA)
Supervision (Reading) Soft-Starter status
Digital input and output status
Last 4 faults
Soft-Starter Software Version
Heatsink temperature
Motor thermal protection status
Plug-in type local HMI
HMI remote Kit
5 and 10m cable for remote HMI interconnection
RS-232 communication kit
SSW-07 interconnection leads >>> PC Serial (RS-232) 3 and 10m
Accessories and Options Options RS-485 communication kit
Motor PTC kit
Ventilation kit for size 2 (45 to 85 A)
Ventilation kit for size 2 (45 to 85 A)
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SSW-07 - Part Number Specification



- 1 WEG SSW-07 Series Soft-Starter
- 2 Soft-Starter rated output current

3 - Soft-Starter input power supply: T = Three-phase

4 - Power supply voltage: 5 = 220 to 575 V range

5 - Product version: S = Standard

O = with Options

6 - Enclosure: Blank = Standard

IP = IP20 for models from 130A to 412A

7 - Special Hardware: Blank = Standard

> H1 = 110V fans (255 - 412A only) H2 - 230V fans (255 - 412A only)

8 - Special Software: Blank = Standard

9 - End of code: Z = End of product code indicator digit.

Rating Table

SSW-07 Model	Motor Voltage (kW) 220 / 230 V	Motor Voltage (kW) 380 / 400 V	Motor Voltage (kW) 440 / 460 V	Motor Voltage (kW) 575 V
17 A	3.7	5.5	7.5	11
24 A	5.5	7.5	11	15
30 A	7.5	11	15	18.5
45 A	11	18.5	22	30
61 A	15	22	30	37
85 A	22	37	45	55
130 A	37	55	75	90
171 A	45	75	90	110
200 A	55	75	110	150
255 A	75	110	150	185
312 A	90	130	185	225
365 A	110	150	225	260
412 A	110	185	260	330

Power and currents according to UL508.

NOTE: The maximum powers indicated above are based on 3 x nominal current of Soft Starter SSW-07 during 30s and 10 starts per hour (3xln @ 30s).