

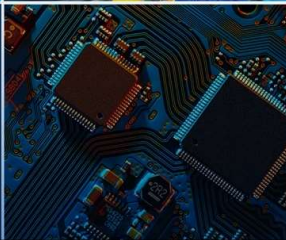
SSW05 Overview



Driving efficiency and sustainability



Class: SSW051
Version: 01.2025



Automation Training

SSW05



SSW05 – COMPACT STARTER

- The SSW05 is WEG's most compact solid-state starter, with control of two motor phases, a built-in bypass, and all the protections for the electric motor. Featuring DSP control (Digital Signal Processor), the SSW05 is designed for optimal motor start and stop performance and excellent cost-effectiveness.
- In addition, they are easily set, simplifying start-up activities and daily operations. Their compact dimensions contribute to optimizing space in electrical panels.



The SSW05 is WEG's most compact solid-state starter. This innovative device offers control of two motor phases, a built-in bypass, and comprehensive protection for your electric motor. With advanced Digital Signal Processor control, the SSW05 ensures optimal motor start and stop performance, delivering excellent cost-effectiveness.

Designed for simplicity, the SSW05 is easy to set up, streamlining start-up activities and daily operations. Its compact dimensions make it an ideal choice for optimizing space in electrical panels.

In this presentation, we will review the SSW05 in more detail.

SSW05



MAIN FEATURES



- Current ranges from 3 to 85 A
- Supply voltage from 220 to 460 V ac or from 460 to 575 V ac
- Simple electrical installation.
- Built-in bypass.
- Electronic thermal relay.
- Built-in motor protections.
- Operation in environments up to 55 °C.
- Remote operating interface (HMI) - optional

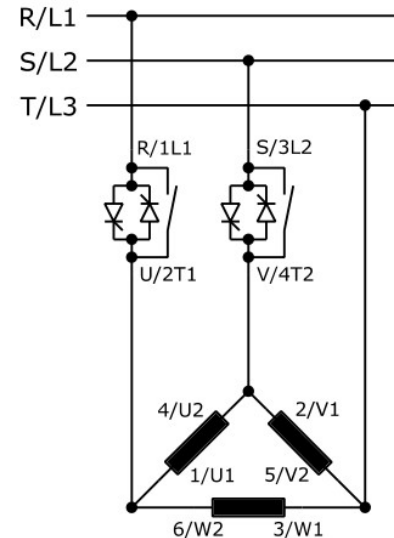
The SSW05 offers a range from 3 to 85 amps, making it suitable for various applications. It supports supply voltages from 220 to 460 volts AC or from 460 to 575 volts AC, ensuring compatibility with different power systems. Installation is straightforward, thanks to its simple electrical setup. The built-in bypass feature enhances operational efficiency, while the electronic thermal relay provides reliable protection. Additionally, the SSW05 includes built-in motor protections, ensuring the longevity and safety of your equipment. It is designed to operate in environments with temperatures up to 55 degrees Celsius. For added convenience, an optional remote operating interface is available, allowing for easy monitoring and control.

SSW05



CONTROL PHASES

- 2 Phases Controlled
- Not as Precise as controlling all 3 phases.
- 30% Higher than starting with a three-phase starter.
- One phase always has voltage.



The two-phase controlled unit offers a cost reduction by not controlling one phase, resulting in one less SCR and one less bypass contactor. However, controlling only two phases is not as precise as controlling all three phases. Consequently, the expected current is approximately 30% higher than starting with a three-phase starter. Over time, this setup can impact the motor, as it briefly single-phases the windings during startup. Please note that one phase will always have voltage because it is not controlled.

Despite these considerations, this configuration is quite common in the market for micro starters, as it enhances competitiveness by reducing size and heat dissipation.

SSW05



CONNECTION PORTS



Starting at the top of the SSW05, we have the three-phase power supply input, which is crucial for providing power to the soft starter.

Moving down, we encounter the electronics power supply and digital inputs.

On the left side of the device, we have the dip switch to enable or disable motor protections. This switch allows users to customize the level of protection based on their specific requirements.

Below this, we see the protection LED indicators and status LED indicators. These LEDs offer real-time feedback on the soft starter's operational status, ensuring that users are always informed about the device's status.

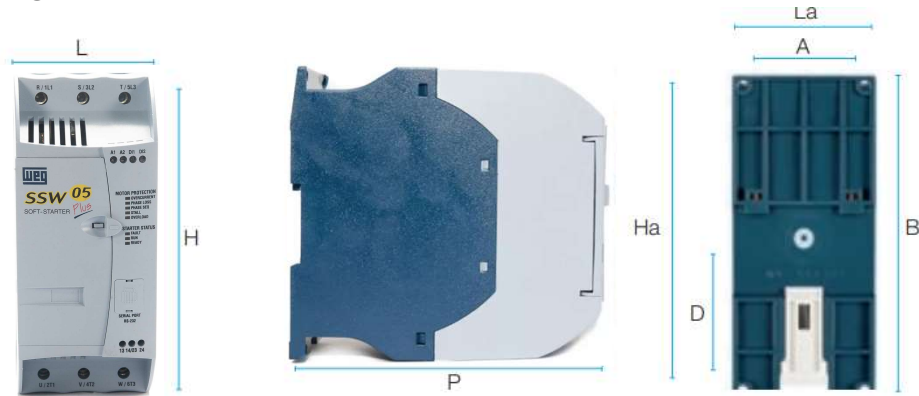
Next, we find the pedestal voltage, acceleration and deceleration time, and motor current settings. Directly to the right of this, we have the connector for serial or remote HMI. This feature enables users to connect a human-machine interface, providing an intuitive and user-friendly way to monitor and control the soft starter's operations.

Below this, we find the digital relay outputs. These outputs are essential for signaling and controlling external devices, ensuring that the soft starter can effectively interact with other components in the system.

Finally, we have the output of the motor. This output is responsible for delivering the controlled power to the motor, ensuring it operates smoothly and efficiently.

SSW05

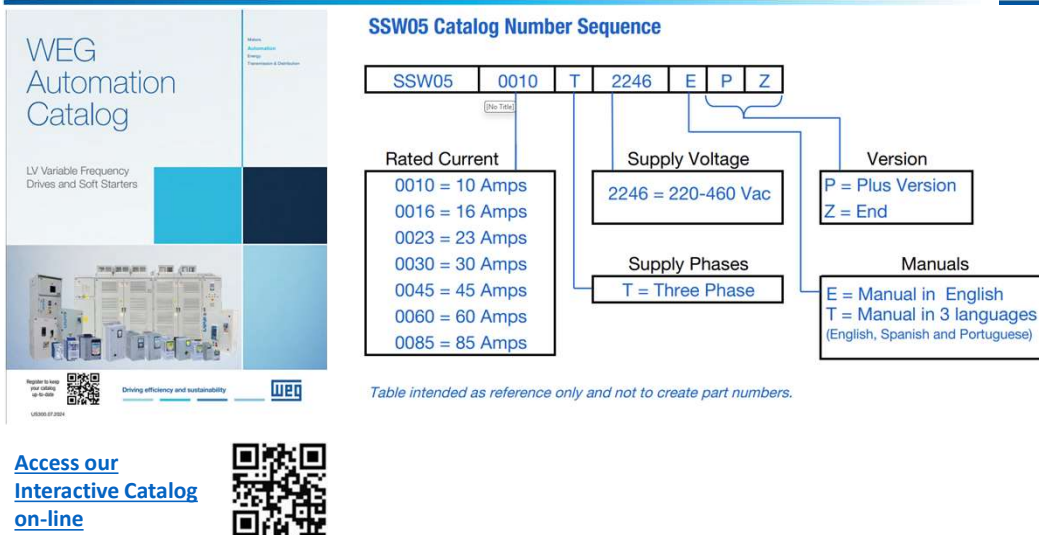
DIMENSIONS



Size	Width L (mm)		Height H (mm)		Depth P (mm)	Mounting A (mm)	Mounting B (mm)	Mounting D (mm)	Mounting	Weight (kg)
	L	La	H	Ha						
1	59	60.4	130	130.7	145	51	122	61	M4 Screw/Rail	0.74
2	79	80.4	185	185.7	172	71	177	99	M4 Screw/Rail	1.64

The SSW05 is available in two frame sizes shown here. It is also worth noting that the SSW05 can be panel-mounted or din rail mounted.

Sizing and Selecting



The SSW05 part number is structured into five distinct components, each serving a critical role in identifying the specific characteristics of the product. These components are the Rated Current, which indicates the maximum current the device can handle; the Supply Voltage, denoting the voltage range the device is designed to work within; the Supply Phases, specifying the device operates on three-phase power; Manuals, outlining if the manuals should be in English, Spanish, and Portuguese or just English; and the version.

For a comprehensive list of all available SSW05 part numbers, please refer to the WEG Automation Catalog.



WEG Electric Corp
1 800 ASK 4WEG (275-4934)
info@weg.net

Thank you for your
time and attention.



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Thank you for watching our overview of the SSW05. Please take the test before continuing to the next training session.