

Soft Starters



STELLAR
soft starters

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Stellar® Series Soft Starters

Fully Digital with Touchscreen, 3-Phase Soft Starters

SR55 Series, 17A – 477A

SR55 soft starters are fully digital, and use thyristors in all three motor phases for controlled reduced voltage motor starting and stopping. SR55 series starters have an Automatic Application Setup that fully configures the starter for a specific application with one entry. And the SR55 series has built-in internal bypass relays and patented iERS (intelligent Energy Recovery System) that reduces energy costs when used on lightly loaded and oversized motors.



Features

- 17-477A @ 200-480VAC
- 24VDC, 110VAC, or 230VAC selectable control voltage
- Internally bypassed during run
- Fully programmable, full three-phase motor control
- Built-in SCR failure protection, full motor overload protection
- Full data logging (fault records, motor current, operational status, etc.)
- Easily and separately adjustable motor start and stop times
- iERS (intelligent Energy Recovery System) saves energy on lightly-loaded motors
- Can be connected 'in-the-delta', allowing use of a smaller Soft Starter
- Can be used for motor reversing (with external contactors)
- Touchscreen with easy-to-navigate menu structure and quick automatic application set up
- Can be used with local or remote control
- Integrated Modbus RTU, or optional Modbus TCP or EtherNet/IP communication
- Configure and view parameters as well as view logs using StellarLink software



STELLAR®

soft starters

The Stellar Advantage

Our Stellar Series of soft starters are designed to help you reduce mechanical wear and tear on startup, reduce energy costs and help you minimize loss of production hours from equipment breakdown.

When to use a soft starter?

General purpose soft start applications are suitable where traditional across-the-line starting or wye-delta starting would typically be appropriate. Stellar soft starters should not be used if the starting time will exceed 30 seconds.

Why purchase your soft starter from AutomationDirect?

- Our soft starters are **IN-STOCK** and ready to ship
- **FREE 2-day delivery when you order \$49 or more**
- **FREE 45-day money-back guarantee**
- **FREE #1 voted tech support**
- **VALUE PRICING on everything we sell - you'll always get our best price whether you order 1 or 100 items**

3-Phase Soft Starters up to 450 hp!

Basic Soft Starters Suitable For Most Applications

SR35 Series, 17A – 361A



The Stellar SR35 series is an ideal substitute for a Star/Delta starter that provides easy setup and configuration through the built-in menu as well as the ability to store and load to/from a USB drive for quick duplication of parameters. Automatic application configuration is supported to reduce configuration time but custom configuration is also supported. The SR35 soft starters use thyristors on two of the main phases for controlled reduced voltage motor starting and stopping, then switch to internal bypass contacts for efficient running at rated speed.

The SR35 series offers many optional accessories to improve upon this already versatile soft starter such as increasing the supported starts per hour from 5 to 40 by adding an optional fan or expanding upon the built-in I/O by adding the optional auxiliary I/O module.

Features

- 17-361A @ 208-230/460/575 VAC
- 1.5-242A @ 110-120/220-240 VAC single-phase
- 24 VDC control power, 110-230 VAC with optional SR35-PSU
- 24 VDC (110-230 VAC with SR35-PSU) for 2 built-in digital inputs, 2 built-in relay outputs
- Optional module adds additional 2 DC inputs and 2 relays outputs as well as PTC Thermistor
- Modbus RTU communications supported
- Internal bypass contacts for Run
- Easily programmed to adjust motor start voltage and start and stop times
- Viewable fault history
- Optional remote keypad
- Suitable for a wide variety of motor loads
- IP20 (up to SR35-192 with finger guards installed)
- Built-in electronic motor overload
- Configure and view parameters as well as view logs using StellarLink software
- Two year warranty

Simple, Compact 3-Phase Soft Starters

SR22 Series, 5A – 40A



The Stellar SR22 series is a low-cost family perfect for use in applications where space is a concern. The SR22 soft starters use thyristors for controlled reduced voltage motor starting and stopping, then switch to internal bypass contacts for efficient running at rated speed. 3-potentiometer setup (Start Voltage, Start Time, and Stop Time) make installation and commissioning easy.

Features

- 5-40A @ 208-460V
- 5-40A @ 110-240V single-phase
- 24 VDC control voltage
- Easily and separately adjustable motor start and stop times
- Two-phase control
- Internal bypass contacts for run
- DIN rail mounting
- Two standard-size widths: 45 & 55 mm
- Six error/trip indications: AC Supply, Control Supply, Overheated, Bypass Failure, Shear Pin, Overcurrent
- Two-year warranty

Need help selecting a soft starter?
GO TO:
SOFT STARTER SELECTOR TOOL



WEG® Soft Starters

SSW900 Series, 10A –950A

Combining convenience and innovation, the WEG SSW900 series is the right choice for complete motor protection and start/stop control. Developed for industrial or professional use, this line of soft starters allows easy and simple access to the configuration settings and application data. The SSW900 offers numerous advancements over similar soft starters in both functionality and ease of use.

Using a well-structured menu interface, the SSW900 series 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 a date and time, and setup assistant are available. The equipment has a built-in bypass, which 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.

Features

- 10 to 950 A @ 220-575VAC
- Advanced keypad with intuitive setup
- Optional software setup with free WEG WPS software (the same software used for all WEG motor control products)
- Standard connection (3 wires) or Inside Delta connection (6 wires) (130A and higher models only)
- Ample built in I/O with detachable terminals for easy wiring
- Integral motor thermal protection
- Robust design allows operation at 55 °C ambient temperature without current derating on models up to 412A
- Fire mode
- Built-in bypass
- Programmable protections for line-side short circuit, motor overload, underload, overvoltage, undervoltage, voltage imbalance between phases, and phase sequence
- Thermal protections through built in PTC input or optional PT100 card for RTD connection
- Bypass protections (overcurrent, undercurrent, and failure in the bypass contactor opening)

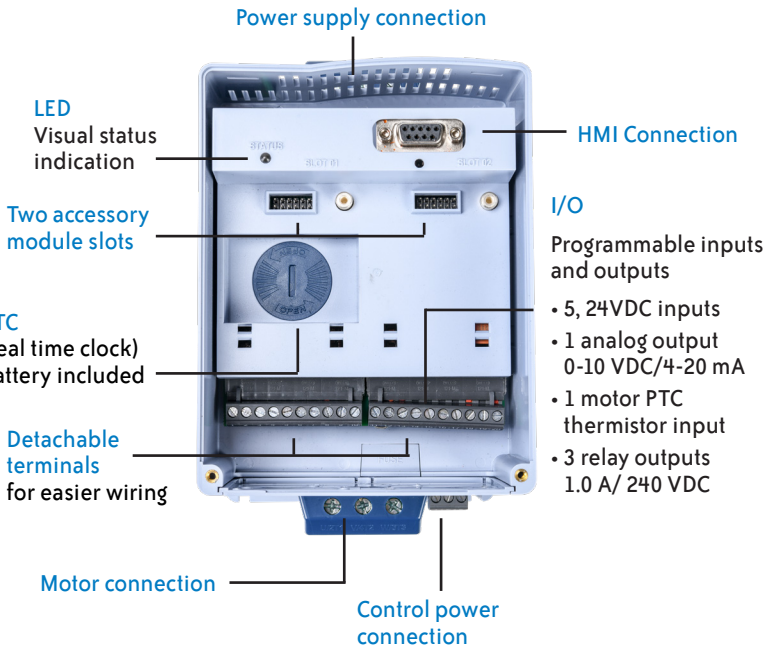


Temperature input module RS485 comm module Ethernet comm module

Need help selecting a soft starter?
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SOFT STARTER SELECTOR TOOL



mSST-4 Soft Starters



1 - 800 - 633 - 0405



WEG SSW900 soft starters available in frame sizes A through F

Set up your starter in no time using the convenient local keypad or the versatile WPS software

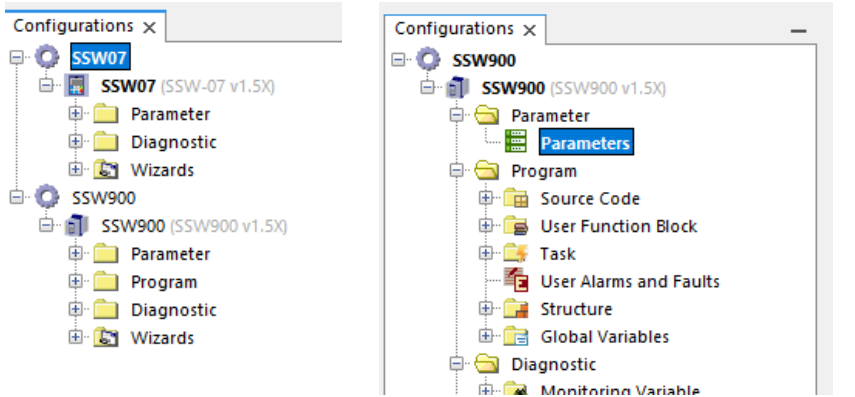
1. Advanced Keypad with Intuitive Menu Structure



USB Connection



2. Free WPS Software



Welcome x Parameters x		Offline	Online	Minimum	Maximum	Factory settings	Unit	Type
S Status								
S1 Measurements	A1.1 Mode	1: Yes		0: No	1: Yes	1: Yes		USINT
S2 I/O	C1.1 Types of Control	1: Voltage Ramp + Current ...		0: Voltage Ramp	6: D.O.L. SCR	1: Voltage Ramp + Current ...		USINT
S3 SSW900	C1.10 End Start Torque	110		10	300	110	%	UINT
S4 Temperatures	C1.11 Minimum Start Torque	27		10	300	27	%	UINT
S5 Communications	C1.12 Min.Start Torq. Time	20		1	99	20	%	USINT
S6 SoftPLC	C1.13 Stop Time	0		0	999	0	s	UINT
D Diagnostics	C1.14 Step Down Volt. Stop	100		60	100	100	%	USINT
D1 Fault	C1.15 End Voltage Stop	30		30	55	30	%	USINT
D2 Alarms	C1.16 Stop Torque Charac.	1: Constant		1: Constant	3: Square	1: Constant		USINT
D4 Motor On	C1.17 End Stop Torque	20		10	100	20	%	USINT
D5 Temperatures	C1.18 Minimum Stop Torque	50		10	100	50	%	USINT
D6 Hours Control	C1.19 Min. Stop Torque Time	50		1	99	50	%	USINT
C Configurations	C1.2 Initial Start Voltage	30		25	90	30	%	USINT
C1 Starting and Stopping	C1.3 Maximum Start Time	20		1	999	20	s	UINT
C2 Nominal Motor Data	C1.4 Start End Detection	1: Automatic		0: Time	1: Automatic	1: Automatic		USINT
C3 LOC/REM Selection	C1.5 Initial Current Ramp	150		150	600	150	%	UINT
C4 I/O	C1.6 Current Ramp Time	20		1	99	20	%	USINT
C5 Protections	C1.7 Current Limit	300		150	600	300	%	UINT
C6 HMI	C1.8 Start Torque Chara.	1: Constant		1: Constant	3: Square	1: Constant		USINT
C7 Special Functions	C1.9 Initial Start Torque	30		10	300	30	%	UINT
C8 Communications	C10.1.1 Mode	0: Not Used		0: Not Used	6: Reserved	0: Not Used		USINT
C9 SSW900	C10.2.1 Mode	0: Off		0: Off	2: HMI -> SSW	0: Off		USINT
C10 Load / Save Parameter	C10.3.1 Mode	0: Not Used		0: Not Used	8: Thermal Class Status	0: Not Used		USINT
C11 SoftPLC	C10.4.1 Mode	0: No		0: No	1: Yes	0: No		USINT
A Assistant	C10.5.1 Mode	0: No		0: No	1: Yes	0: No		USINT
A1 Oriented Start-up	C11.1 Mode	0: Stop Program		0: Stop Program	1: Run Program	0: Stop Program		USINT
	C11.2 Action App. Not Running	0: Inactive		0: Inactive	2: Fault F708	0: Inactive		USINT
	C11.3.1 User #1	0		-10000	10000	0		DINT

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Soft Starters mSST-5



More WEG Soft Starters

WEG SSW07 Series, 17A – 412A



The WEG SSW07 series soft starters, with DSP (Digital Signal Processor) control, are another option as a substitute for a Star/Delta starter. The SSW07 was designed to provide great performance on motor starts and stops with an excellent cost-benefit ratio. With a simplified setup, the SSW07 ensures start-up activities and daily operations go smoothly. The SSW07 is also compact, optimizing space in electric panels.

Features

- Universal voltage (220-575 VAC)
- Built-in run rated (AC1) bypass contactor
- Significant reduction of mechanical stresses through the coupling and transmission devices (gearboxes, pulleys, gears, conveyors, etc.) during the start
- Easy operation, setup, maintenance and installation
- Operates in environments up to 131°F (55°C) without current reduction
- Built-in electronic overload relay
- Limitation of voltage drop during start
- Conformal coated circuit boards
- Option modules available for Serial communications, Remote HMI, or PTC input.
- Compatible with free WPS software (serial comms module required)

Setting Trimpots

DIP Switch to set and enable the protections and modes

DIP Switch for thermal class setting



SSW-07 Status Indication LEDs

WEG SSW05 Series, 10A – 85A



The WEG SSW05 series compact, fully digital soft starters with a state-of-the-art DSP (Digital Signal Processor) controller. Simple set-up and operation are assured since all parameters and set-up selections are made via DIP switches and potentiometers. Status LEDs alert the user of the operational status of the SSW05. Simplicity, ease of set-up, and the small panel assure quick and easy installation and operation. The SSW05 can fit into the same space as many across the line motor starters and can control motors with an FLA from 10 to 85 amps.

Features

- 208-480 VAC, 50/60 Hz input power supply
- Duty cycle: 300% rated current for 10 seconds, 4 starts per hour
- Built-in bypass contactor
- Adjustable acceleration and deceleration ramps (1-20 sec)
- Adjustable pedestal voltage (30-80% of line voltage)
- Protective features:
 - Motor overload
 - Overcurrent and locked rotor
 - SCR overload
 - Phase loss and phase sequence
- DIN rail or direct mount
- Optional remote keypad