

The Stellar Advantage

Why use a soft starter instead of electromechanical contactors to control 3-phase AC induction motors?

Reduce mechanical wear and tear

- Smooth acceleration; reduced shock and starting stress
- Extend lifespan of mechanical drive train components
- Fluid couplings and some clutches can be eliminated

Increased electrical efficiency

- Reduced starting current
- More motors or larger motors can be started from lower-capacity power sources
- Allows motors to be started more frequently
- SR22 and SR33 only - Internal mechanical bypass contacts open and close under reduced current, increasing lifespan and reliability

Cost savings

- Lower overall costs for new installations
- Reduced maintenance and replacement of mechanical drive train components
- Reduced starting current reduces electrical power costs
- SR44 only - Energy Optimizing mode reduces electrical power costs
- SR44 only - Automatic Application setup feature speeds installation by configuring the SR44 for a specific application with one setting.

The SR33 series is an ideal substitute for a Star/Delta starter because it fits into a similar footprint, thus simplifying installation. The SR33 soft starters use thyristors for controlled reduced voltage motor starting and stopping, then switch to internal bypass contacts for efficient running at rated speed.

This series is designed to fit in place of existing wye-delta starters. 3-potentiometer setup (Start Voltage, Start Time, and Stop Time) make installation and commissioning easy.

Features

- 22-482A @ 208-230/460 VAC
- 24 VDC or 115 VAC I/O
- 24 VDC control power required
- Two-phase control
- Internal bypass contacts for Run
- Easily and separately adjustable motor start voltage and start and stop times
- Suitable for a wide variety of motor loads
- Designed to replace wye-delta starters
- Fault indication of 4 or 7 fault types, depending upon model.
- IP20 (SR33-22 to SR33-97)
- IP00 (SR33-132 to SR33-482) panel mount
- Two-year warranty

Stellar® Series Soft Starters



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 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 \$300 or more**
- **FREE 30-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 Basic Soft Starters up to 400 hp! SR33 Series, 22A - 482A





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Energy Optimizing and Efficient, Full-Featured 3-Phase Soft Starters

SR44 Series, 9A - 370A



SR44 full-featured solid-state Soft Starters provide many advantages when used instead of electromechanical contactors to control 3-phase AC induction motors. The SR44 Soft Starters are fully digital, and use thyristors in all three motor phases for controlled reduced voltage motor starting and stopping. SR44s have an Automatic Application Setup that fully configures the starter for a specific application with one entry. SR44s also have a built-in "Optimizing" mode that reduces energy costs when used on lightly loaded or oversized motors, and external bypass capability for efficient running at rated speed.

Features

- **Advanced energy-saving Optimizing Mode improves motor efficiency and power factor; prolongs motor life**
- **Can be connected 'in-the-delta', allowing use of a smaller Soft Starter**
- **9–370A @ 230–460VAC**
- **Full three-phase motor control**
- **Can be controlled via Local Keypad, Digital Inputs, optional Remote Keypad, or optional Modbus Communications.**
- **115/230VAC or 12/24VDC control inputs**
- **Fault record history of last 5 trips**
- **Two-year warranty**



Compact 3-Phase Soft Starters at Direct Prices

SR22 Series, 5A - 40A



The 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
- 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

Stellar® SR33 Series Basic Soft Starters

Overview

SR33 semi-conductor soft starters provide many advantages when used instead of electro-mechanical contactors to control 3-phase AC induction motors. The SR33 soft starters use thyristors for controlled reduced voltage motor starting and stopping, then switch to internal contacts for efficient running at rated speed.

Designed to fit in place of existing wye-delta starters.

Features

- 22–482A @ 208-230/460 VAC
- 24 VDC or 115 VAC I/O
- 24 VDC control power required
- Two-phase control
- Internal bypass contacts for Run
- Easily and separately adjustable motor start voltage and start and stop times
- Suitable for a wide variety of motor loads
- Can replace wye/delta starters
- Fault indication of 4 or 7 fault types, depending upon model: SCR or Power Supply, Overheat, Control Power Supply, Bypass Relay Failure, Shearpin, Overload, Overcurrent
- IP20 (SR33-22 to SR33-97)
IP00 (SR33-132 to SR33-482)
panel mount
- Two-year warranty

Advantages

Mechanical Advantages

- Smooth acceleration; reduced mechanical shock and starting stress
- Extend lifespan of mechanical drive train components
- Fluid couplings and some clutches can be eliminated

Electrical Advantages

- Reduces starting currents and spikes
- Reduces high transient currents
- More motors or larger motors can be started from lower-capacity power sources
- Allows motors to be started more frequently
- Internal mechanical contacts open and close under reduced current, increasing lifespan and reliability

Economic Advantages

- Lower overall costs for new installations
- Reduced maintenance and replacement of mechanical drive train components
- Reduced starting current reduces electrical power costs

Standards & Approvals

- CE
- REACH
- RoHS
- UL listed* (E333109)
* (soft starters SR33-350 to SR33-482 are not UL listed or recognized)

Accessories

- Heat-shrink insulation kit SR33-HS1 (required for soft starters SR33-132 to SR33-280 used in UL applications)

Applications

- General purpose applications where traditional across-the-line starting or wye-delta starting would typically be appropriate.



SR33-22 to SR33-55



SR33-66 to SR33-97



SR33-132 to SR33-195



SR33-241 to SR33-482

Stellar® SR33 Series Basic Soft Starters

SR33 Soft Starter Technical Specifications

| SR33 Series Basic Soft Starters – 22A-482A * – Model-Specific Specifications and Features | | | | | | | |
|---|--|---------|---------|---------|---------------------------|---------|---------|
| Model | SR33-22 | SR33-29 | SR33-41 | SR33-55 | SR33-66 | SR33-80 | SR33-97 |
| Price | <---> | <---> | <---> | <---> | <---> | <---> | <---> |
| * Rated Current [trip class 5] (A) | 22 | 29 | 41 | 55 | 66 | 80 | 97 |
| * Motor Rating | Refer to selection table. Starters must be sized according to HP and starting class. | | | | | | |
| ** Short Circuit Current Rating (Type 1) | 5kA for SR33-22 to SR33-55; 10kA for SR33-66 to SR33-195; 18kA for SR33-241 to SR33-482 | | | | | | |
| Steady State Power Loss (W) | 6 | 10 | 12 | 15 | 17 | 20 | 24 |
| Control Power Supply Required Output Capacity | approx 4VA | | | | | | |
| Overload Trip | n/a | | | | | | |
| Terminals: Power / Ground | wire clamp terminals / M6 | | | | wire clamp terminals / M8 | | |
| Design Standards | UL508 Industrial Control Equipment; EN/IEC 60947-4-2 "AC Semiconductor Motor Controllers and Starters" | | | | | | |
| Environmental Rating | IP20 | | | | | | |
| Product Weight (kg [lb]) | 2.3 [5.1] | | | | 3.5 [7.75] | | |

| Model | SR33-132 | SR33-160 | SR33-195 | SR33-241 | SR33-280 | SR33-350 | SR33-430 | SR33-482 |
|--|---|----------|----------|---|------------------------|-------------|----------|----------|
| Price | <---> | <---> | <---> | <---> | <---> | <---> | <---> | <---> |
| * Rated Current [class 10(B) trip] (A) | 132 | 160 | 195 | 241 | 280 | 350 | 430 | 482 |
| * Motor Rating | Refer to selection table. Starters must be sized according to HP and starting class. | | | | | | | |
| ** Short Circuit Current Rating (type 1) | 5kA for SR33-22 to SR33-55; 10kA for SR33-66 to SR33-195; 18kA for SR33-241 to SR33-482 | | | | | | | |
| Steady State Power Loss (W) | 35 | 42 | 52 | 60 | 69 | 83 | 104 | 121 |
| Control Power Supply Required Output Capacity | approx 12VA, capable of 4A for 250ms | | | | | | | |
| Overload Trip | n/a | | | Single-phase sensing; Non-adjustable; (refer to O/L trip curve) | | | | |
| Terminals: Power / Ground | external busbars / M8 | | | | external busbars / M10 | | | |
| Design Standards | UL508 Industrial Control Equipment | | | | | n/a | | |
| | EN/IEC 60947-4-2 "AC Semiconductor Motor Controllers and Starters" | | | | | | | |
| Environmental Rating | IP00 | | | | | | | |
| Product Weight (kg [lb]) | 4.3 [9.5] | | | 9.7 [21.4] | | 13.5 [29.8] | | |
| * Refer to Selection Table for deratings by application and overload trip class. | | | | ** When protected by recommended semiconductor fuse. | | | | |

| SR33 Series Basic Soft Starters – General Specifications and Features | |
|---|---|
| Models | All Models (SR33-22, -29, -41, -55, -66, -80, -97, -132, -160, -195, -241, -280, -350, -430, -482) |
| Rated Operational Voltage / Frequency | 230–460VAC rms 3-phase (-15%+10%) / 50–60Hz +/- 2Hz; Form Designation = Form 1 |
| Impulse Withstand Voltage | 4kV |
| Insulation Voltage Rating | 500V (IEC standard insulation rating. Actual testing proves insulation withstand capacity beyond 460V+10%) |
| Control Power Supply General Requirements | 24VDC supplied externally to terminals X1-X2; Residual Ripple: 100mV; Spikes/Switching Peaks: 240mV; Turn On/Off Response: No overshoot of V _{out} ; Output voltage must be clamped to < 30V |
| Control Input (Start/Stop) | 24V DC/110V AC galvanically isolated terminals A1-A2 (1mA @ 24V DC; 3mA @ 110V AC; not suitable for use with PLC triac output) |
| Control Relay Outputs | 230VAC, 3A, resistive; 230VAC, 1A, AC15; Run – 13/14; Ready – 23/24 |
| Start Time Setting Range | 0 to 30 seconds |
| Start Voltage Setting Range | 30 to 100 percent |
| Stop Time Setting Range | 0 to 30 seconds |
| Start Duty | S1 per IEC 34-1 & VDE0530 Part 1. 3 x FLC for 5 seconds @ standard rating (Class5, 40°C [104°F]). |
| Starts / Hour | 10 starts per hour, or 5 starts + 5 soft stops per hour |
| Index Rating | Class 5; AC53b: 3-5: 355; internally bypassed (10 starts/hr) |
| Indication | Multi function LED on front panel |
| Ambient Operating Temperature | 0 to 40 °C [32 to 104 °F] – Above 40°C [104 °F] derate linearly by 2% of unit FLC per °C to a max derate of 40% at 60°C [140 °F]. (Derating not UL. Refer to separate UL Ratings and Protection Requirements) |
| Transportation & Storage Temperature | -25 to 60 °C [-13 to 140 °F] |
| Humidity | max 85% non-condensing, not exceeding 50% at 40°C [104°F] |
| Altitude | 1000m [3281 ft]. Above 1000m de-rate linearly by 1% of unit FLC per 100m to a max altitude of 2000m [6562 ft]. |
| Pollution Degree | For use in a Pollution Degree 2 environment; No corrosive gases |



Stellar® SR33 Series Basic Soft Starters

SR33 Soft Starter Accessory

| SR33 Series Basic Soft Starters – Accessory | | | |
|---|----------------|-------|---|
| Part Number | Name | Price | Description |
| SR33-HS1 | Insulation Kit | <--> | Heat-shrink insulation required for soft starters SR33-132 to SR33-280 used in UL applications. Can also be used with SR33-350 to SR33-482. |

SR33 Soft Starter Index Ratings

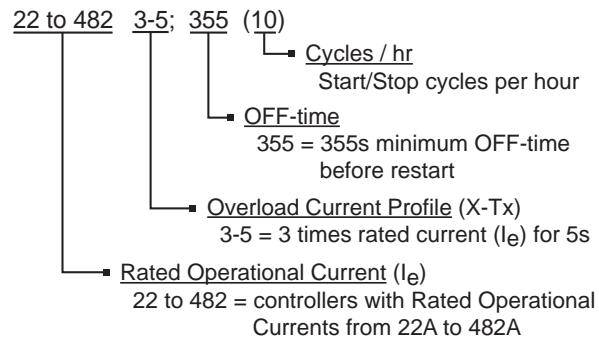
| SR33 Index Ratings – AC-53b (Bypassed Operation) * | | | |
|--|------------------|--------------------|----------------------|
| Trip Class | X-Tx; OFF-time | I _e (A) | Model # |
| 5 | 3-5; 355 (10) | 22 to 482 | SR33-22 to SR33-482 |
| 10B | 3.5-12; 708 (5) | 29 to 241 | SR33-29 to SR33-241 |
| | 3.5-12; 1188 (3) | 280 to 482 | SR33-280 to SR33-482 |
| 10 | 3-23; 697 (5) | 29 to 280 | SR33-29 to SR33-280 |
| | 3-23; 1177 (3) | 350 to 482 | SR33-350 to SR33-482 |
| 20 | 4-19; 701 (5) | 29 to 350 | SR33-29 to SR33-350 |
| | 4-19; 1181 (3) | 430 to 482 | SR33-430 to SR33-482 |
| 30 | 4-29; 691 (5) | 41 to 430 | SR33-41 to SR33-430 |
| | 4-29; 1171 (3) | 482 | SR33-482 |

* Index rating AC-53b is specified by IEC standard # 60947-4-2

Index Rating Example - Bypassed Operation (AC-53b Utilization Category per IEC 60947-4-2)

AC-53b = controller semiconductors provide squirrel-cage motor Start control only; bypassed for Run and Stop.

IEC Index Ratings are comprised of Rated Operational Current (I_e), Utilization Category, Overload Current Profile (X-Tx), OFF-time.



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Stellar® SR33 Series Basic Soft Starters

SR33 Soft Starter Selection

SR33 Sizing Guide

The SR33 is designed for general purpose applications and where a traditional Wye/Delta is currently used (or considered appropriate). Generally the motor will start off-load, and the time to accelerate to full speed will be in the range of a few seconds.

The standard SR33 range is suitable for the majority of applications, and conforms to Trip Class 5, which means it is capable of withstanding three times Full Load Current for 5-second starts. However, there are instances where a different start profile is required. To satisfy these applications, the SR33 has four other ratings; Class 10B, Class 10, Class 20, and Class 30. These ratings correspond to IEC thermal/electronic overload trip classes, and the SR33 must be used with an overload protection device that has a rating corresponding to the Trip Class selected.

When using the selection tables to select the most appropriate SR33 model, please note the following:

- The SR33 is not suitable for very high inertia loads, such as centrifuges or loaded crushers, with starts > 30 seconds.
- Do not use the Class 5 rating when there is a possibility of the motor starting with a significant load.
- 2-pole motors may take longer to start, so use a minimum of Trip Class 10B.

| SR33 Soft Starters – O/L Trip Class ① | | | |
|--|------------|----------------|---|
| Application | Trip Class | Start Time (s) | Notes |
| Standard | 5 | 5 | Suitable for Wye/Delta applications with < 5s start time, motor starts off-load |
| Heavy | 20 | 12–19 | Suitable for Wye/Delta with applications > 12s start time |
| High Torque | 20 | 12 | Requires more starting torque than a Wye/Delta |
| Centrifugal Pump | 10B | 10–15 | Generally easy to start when pumping water |
| Positive Displacement Pump (unloaded) | 10 | 5–10 | Can be difficult to start |
| Off-Load Conveyor | 5 | 5 | Unloaded at start |
| Heavy conveyor | 20 | 5–10 | Loaded at start |
| Low-Inertia Fan | 10 | 10–20 | Generally fans less than or equal to 45kW (60hp) |
| High-Inertia Fan | 30 | 30 | Generally fans greater than or equal to 45kW (60hp) |
| Off-Load Compressor | 5 | 5–10 | Special circuits ensure motor starts off-load |
| Loaded Compressor | 20 | 10–15 | Some compressor systems can be difficult to start |
| Off-Load Mixer | 5 | 5 | No material in basin; off-load |
| Heavy Mixer | 20 | 10–15 | Material in basin |

SR33 Selection Steps

- ① Determine the required trip class based on the motor load and required start time.
- ② Select the applicable SR33 part number based on the required Trip Class and motor HP.

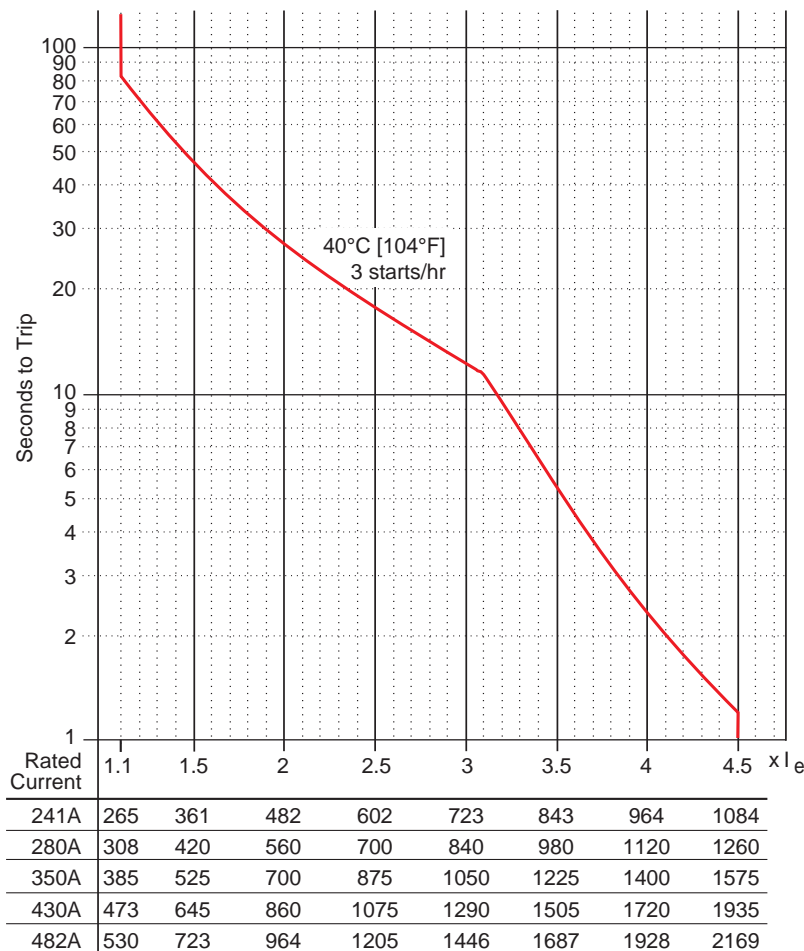
| SR33 SELECTION – Selection Table ② | | | | | | | |
|------------------------------------|------------|------------|-------------------------------------|--------------|-------------|----------|----------|
| I (A) | Motor | | Soft Starter Application Trip Class | | | | |
| | HP @ 230V | HP @ 460V | Class 5 | Class 10B | Class 10 | Class 20 | Class 30 |
| | | | | 10 starts/hr | 5 starts/hr | | |
| 22 | 7.5 | 15 | SR33-22 | SR33-29 | SR33-29 | SR33-29 | SR33-41 |
| 29 | 10 | 20 | SR33-29 | SR33-41 | SR33-41 | SR33-41 | SR33-55 |
| 41 | 10 | 30 | SR33-41 | SR33-55 | SR33-55 | SR33-66 | SR33-97 |
| 55 | 20 | 40 | SR33-55 | SR33-66 | SR33-66 | SR33-97 | SR33-132 |
| 66 | 20 | 50 | SR33-66 | SR33-80 | SR33-80 | SR33-132 | SR33-132 |
| 80 | 30 | 60 | SR33-80 | SR33-132 | SR33-132 | SR33-132 | SR33-160 |
| 97 | 30 | 75 | SR33-97 | SR33-132 | SR33-132 | SR33-160 | SR33-195 |
| 132 | 50 | 100 | SR33-132 | SR33-195 | SR33-195 | SR33-241 | SR33-280 |
| 160 | 60 | 125 | SR33-160 | SR33-241 | SR33-241 | SR33-280 | SR33-350 |
| 195 | 75 | 150 | SR33-195 | SR33-241 | SR33-280 | SR33-350 | SR33-430 |
| – | – | – | – | 3 starts/hr | | | |
| 241 | 75 | 200 | SR33-241 | SR33-280 | SR33-350 | SR33-430 | SR33-482 |
| 280 | 100 | 200 | SR33-280 | SR33-350 | SR33-430 | SR33-482 | – |
| 350 | 125 | 250 | SR33-350 | SR33-482 | SR33-482 | – | – |
| 430 | 150 | 350 | SR33-430 | – | – | – | – |
| 482 | 200 | 400 | SR33-482 | – | – | – | – |



FOR MOTOR OVERLOAD PROTECTION, THE SR33 MUST BE USED WITH A SEPARATE CUSTOMER-SUPPLIED OVERLOAD PROTECTION DEVICE THAT HAS A RATING CORRESPONDING TO THE APPLICABLE TRIP CLASS.

Stellar® SR33 Series Basic Soft Starters

SR33 Soft Starter Circuit Protection



Trip Level Current (Amps)

The SR33 can be used at ratings other than those stated. Use the above trip curves to determine the required unit for the duty.

As an example, the SR33-280 will run a 200hp motor (280 Amp) at the maximum continuous running current and will allow an overload of 3 x 280 Amp (840A) for 12 seconds, 3 times per hour. The unit would also allow a 3.5 x overload (980A) for approximately 5½ seconds, 3 times per hour.

Following an overload trip, subsequent restarts can be restricted due to a cooling time. The severity of overload determines the cooling time, which has a maximum value of 10 minutes.



THE SOFT STARTER OVERLOAD TRIP CURVE SHOWN ON THIS PAGE APPLIES ONLY TO MODEL NUMBERS SR33-241 THROUGH SR33-482, AND IT PROVIDES PROTECTION ONLY FOR THE SOFT STARTER. FOR MOTOR OVERLOAD PROTECTION, A SEPARATE CUSTOMER-SUPPLIED OVERLOAD PROTECTION DEVICE MUST BE PROVIDED.

| UL Short Circuit Protection ** | | | |
|--------------------------------|----------------------|---|------------------------------|
| SR33 Model Number * | Short Circuit Rating | Class J High-Speed or RK5 Time-Delay Current-Limiting Fuse *** Rated 600VAC | Circuit Breaker Rated 600VAC |
| SR33-22 | 5kA | 35A | — |
| SR33-29 | 5kA | 45A | — |
| SR33-41 | 5kA | 60A | — |
| SR33-55 | 5kA | 80A | — |
| SR33-66 | 10kA | 125A | — |
| SR33-80 | 10kA | 175A | — |
| SR33-97 | 10kA | 200A | — |
| SR33-132 | 10kA | 250A | 350A |
| SR33-160 | 10kA | 350A | 450A |
| SR33-195 | 10kA | 400A | 500A |
| SR33-241 | 18kA | 450A | — |
| SR33-280 | 18kA | 450A | — |

* Soft starters SR33-350 to SR33-482 are NOT UL listed or recognized.
** Suitable for use on a circuit capable of delivering not more than the RMS symmetrical Amperes as indicated at 480VAC maximum, when protected by fuses or inverse-time circuit breakers with rated maximum Amperes as indicated.
*** Fuse comparable to Edison type JHL (class J) or ECSR (class RK5).

| RECOMMENDED FUSING for IEC Type 1 Coordination Short Circuit Protection | | | | |
|---|-----------------------------|-------------------------|--|-------------------|
| SR33 Model Number | Rated Short Circuit Current | SIBA Semiconductor Fuse | Class J High-Speed or RK5 Time-Delay Current-Limiting Fuse* Rated 600VAC | |
| | | | Amp | Edison JHL Part # |
| SR33-22 | 5kA | 2018920.50A | 35A | JHL35 |
| SR33-29 | | 2018920.100A | 45A | JHL45 |
| SR33-41 | | | 60A | JHL60 |
| SR33-55 | | 80A | JHL80 | |
| SR33-66 | 10kA | 2018920.125A | 125A | JHL125 |
| SR33-80 | | 2061032.200A | 175A | JHL175 |
| SR33-97 | | | 200A | JHL200 |
| SR33-132 | | 250A | JHL250 | |
| SR33-160 | 2061032.250A | 2061032.400A | 350A | JHL350 |
| SR33-195 | | | 400A | JHL400 |
| SR33-241 | 18kA | 2062032.630 | 450A | JHL450 |
| SR33-280 | | | 2063032.1000 | — |
| SR33-350 | | 2063032.1000 | | — |
| SR33-430 | | | — | — |
| SR33-482 | — | — | — | — |

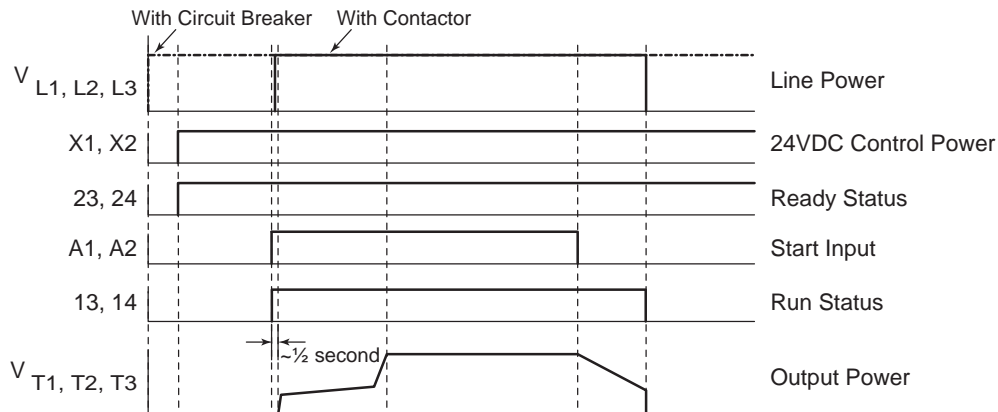
* Fuse comparable to Edison type JHL (class J) or ECSR (class RK5).

Stellar® SR33 Series Basic Soft Starters

| UL Maximum Surrounding Air Temperatures | | | | | | | | | |
|---|----------------------|-----------|----------------------|-----------|---------------------|----------------------|-----------|----------------------|-----------|
| SR33 Model Number * | Maximum 40°C [104°F] | | Maximum 50°C [122°F] | | SR33 Model Number * | Maximum 40°C [104°F] | | Maximum 50°C [122°F] | |
| | I (A) | HP @ 480V | I (A) | HP @ 480V | | I (A) | HP @ 480V | I (A) | HP @ 480V |
| SR33-22 | 22 | 15 | 20 | 10 | SR33-97 | 97 | 75 | 78 | 60 |
| SR33-29 | 29 | 20 | 27 | 20 | SR33-132 | 132 | 100 | 119 | 75 |
| SR33-41 | 41 | 30 | 37 | 25 | SR33-160 | 160 | 125 | 144 | 100 |
| SR33-55 | 55 | 40 | 45 | 30 | SR33-195 | 195 | 150 | 176 | 125 |
| SR33-66 | 66 | 50 | 60 | 40 | SR33-241 | 241 | 200 | 193 | 150 |
| SR33-80 | 80 | 60 | 72 | 50 | SR33-280 | 280 | 200 | 224 | 150 |

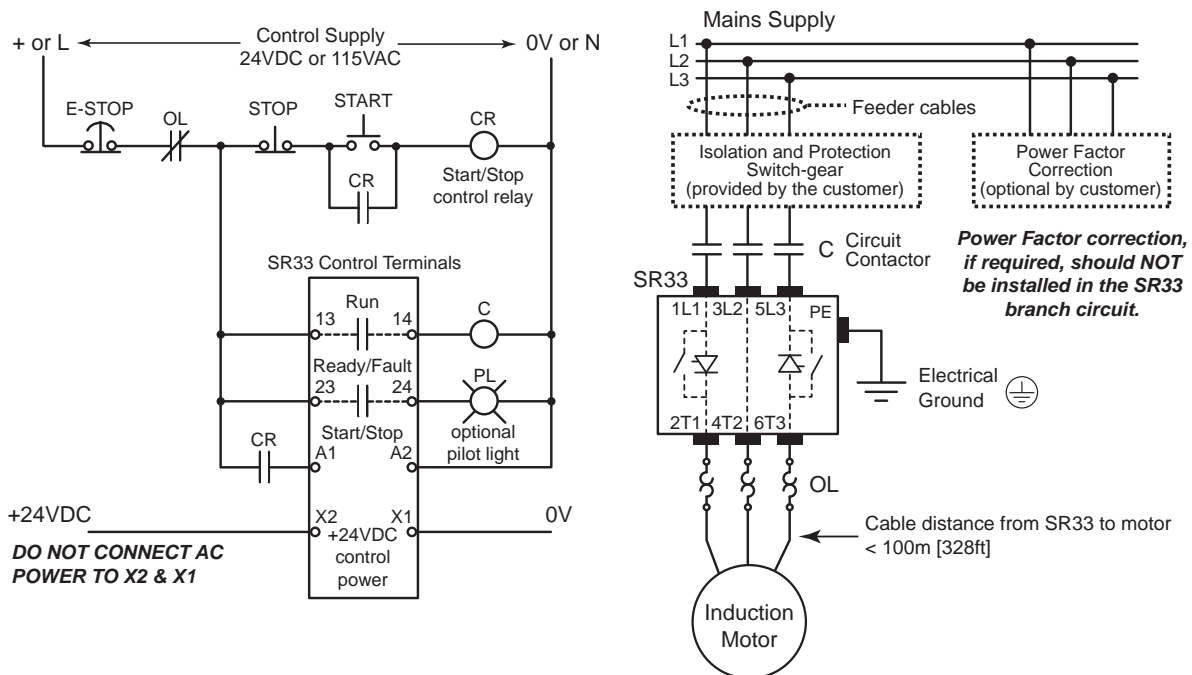
* Soft starters SR33-350 to SR33-482 are NOT UL listed or recognized.

SR33 Soft Starter Timing Diagram



SR33 Soft Starter Standard Wiring Diagram

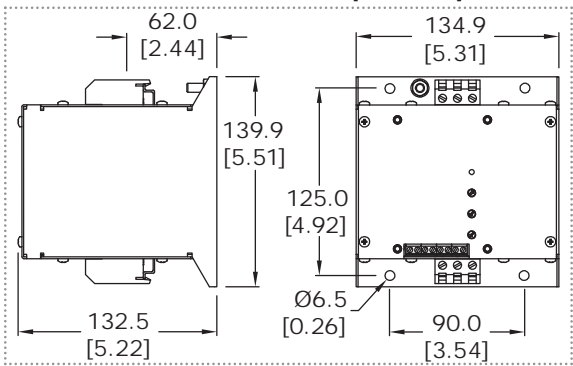
For complete wiring instructions, refer to the "SR33 Digital Soft Starters Quick-start Guide: Installation and Operation" included with the SR33 soft starter and available online at www.AutomationDirect.com.



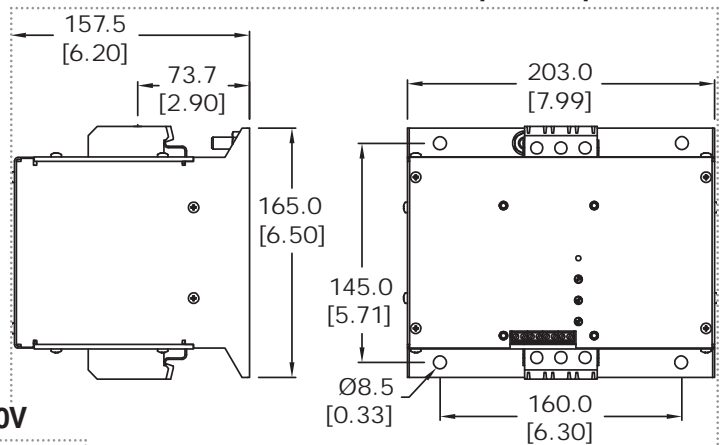
Stellar® SR33 Series Basic Soft Starters

SR33 Soft Starter Dimensions (mm [in])

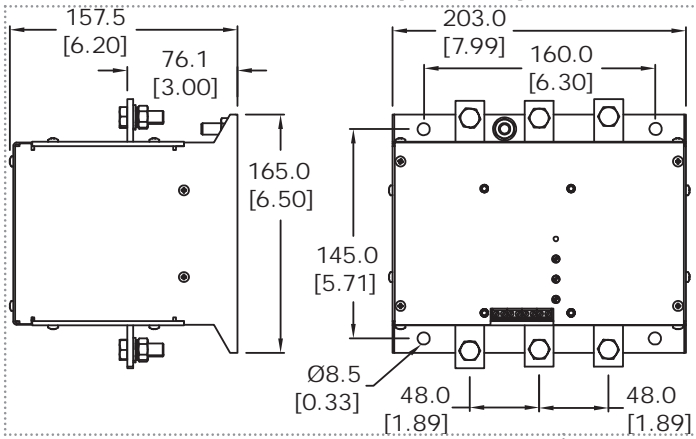
SR33-22 to SR33-55 – 15hp to 40hp @ 460V



SR33-66 to SR33-97 – 50hp to 75hp @ 460V



SR33-132 to SR33-195 – 100hp to 150hp @ 460V



SR33-241 to SR33-482 – 200hp to 400hp @ 460V

