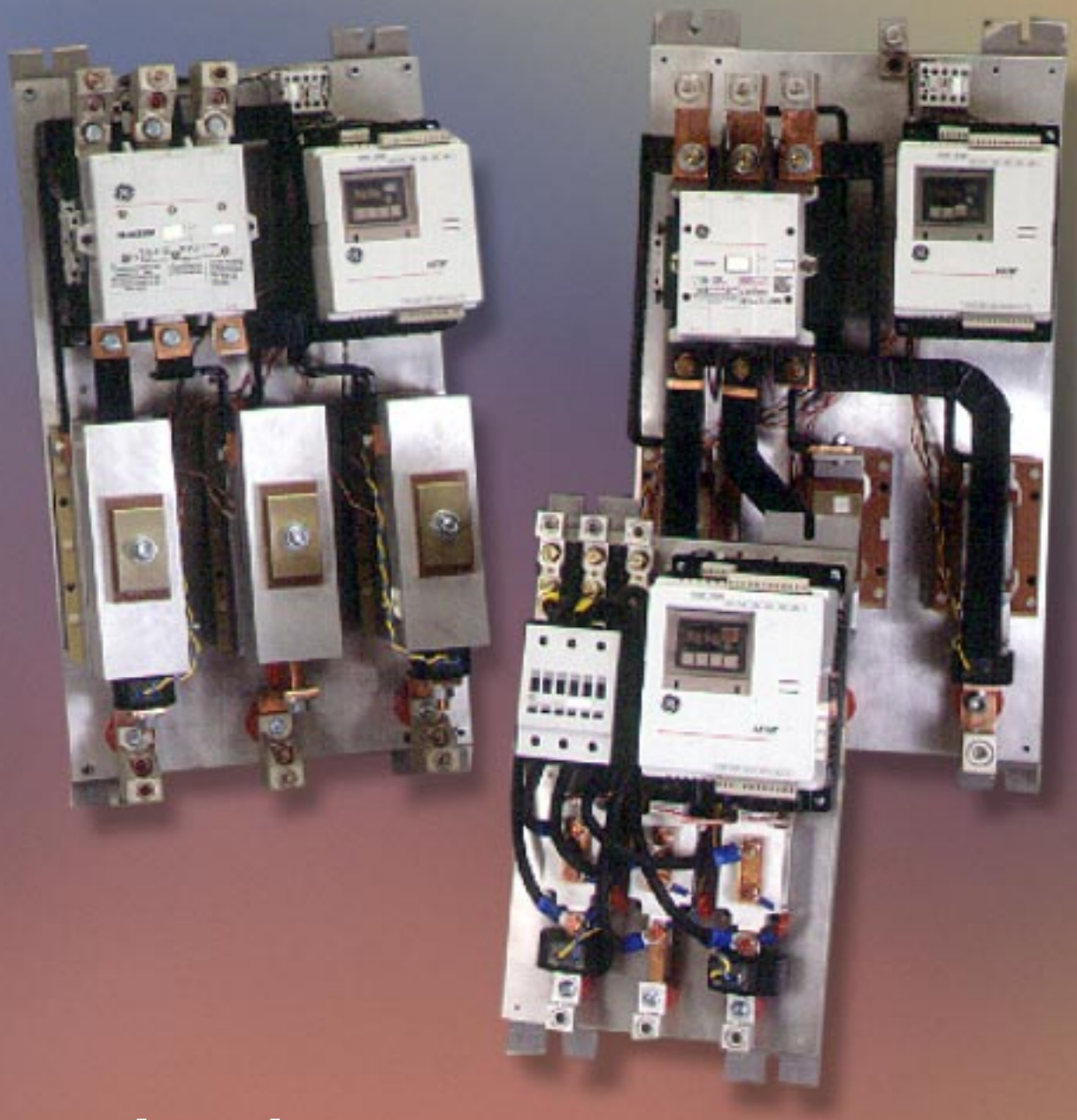
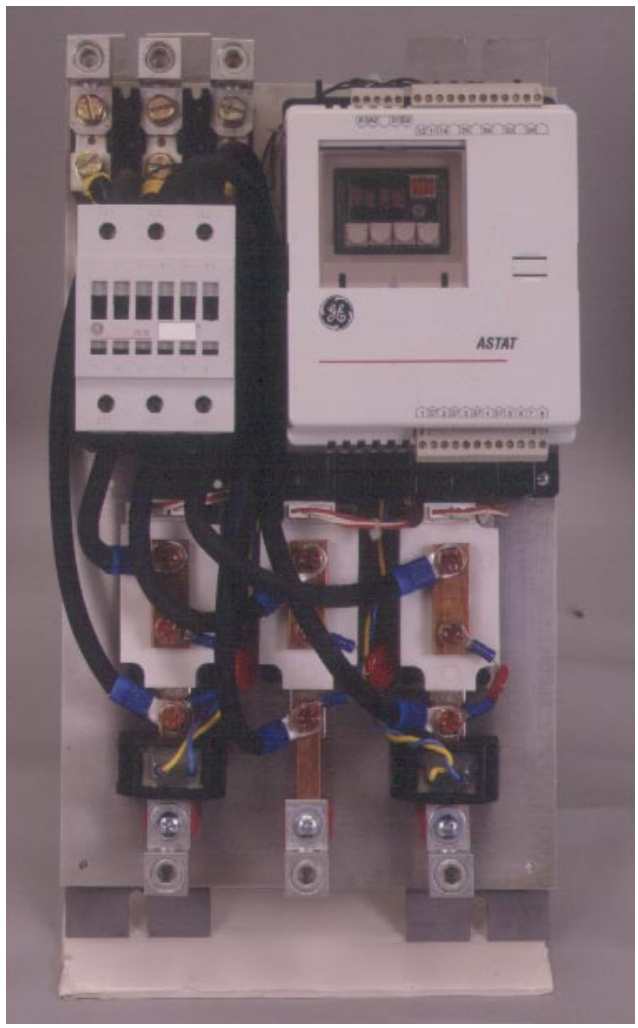
# ASTAT-IBP™ Solid-State Reduced Voltage Starters



## Designed to do more.

# ASTAT-IBP™ Starters
## *Precision, efficiency, versatility.*

ASTAT-IBP™ brings an integrated bypass feature to the ASTAT family of solid state reduced voltage starters. With the ASTAT-IBP, when the motor ramps up to full speed, a fully rated contactor is energized, bypassing the SCRs and allowing the starter to run cooler than conventional solid state reduced voltage starters. When the soft stop feature is enabled, the bypass contactor is de-energized and the SCRs are used to smoothly stop the motor.




- **Fully rated bypass contactor.** Reliability is increased due to lower heat generation than conventional soft starters. An optional maintenance switch allows the ASTAT-IBP to be used as a conventional starter or as a backup in the event of electronics failure. The contactor is rated for 115% continuous current carrying capability.

- **Push buttons and digital display simplify start-up.** Push buttons and an alphanumeric digital display make initial programming and subsequent adjustments quick, accurate, and easy.

- **Broad functions for greater versatility.** Diverse options let you match equipment to applications, such as motor starting with a voltage ramp or limited current, or stopping via soft-stop ramp or power cut-off.

- **Digital technology enhances precision and reliability.** A specialized microprocessor treats signals digitally for greater precision and flexibility than analog circuits. Surface-mount printed circuit components enhance reliability by reducing susceptibility to vibration and heat for greater reliability.

- **Same unit rated at 200-600V and all features are standard.** This simplifies ordering and may reduce inventory for OEMs.

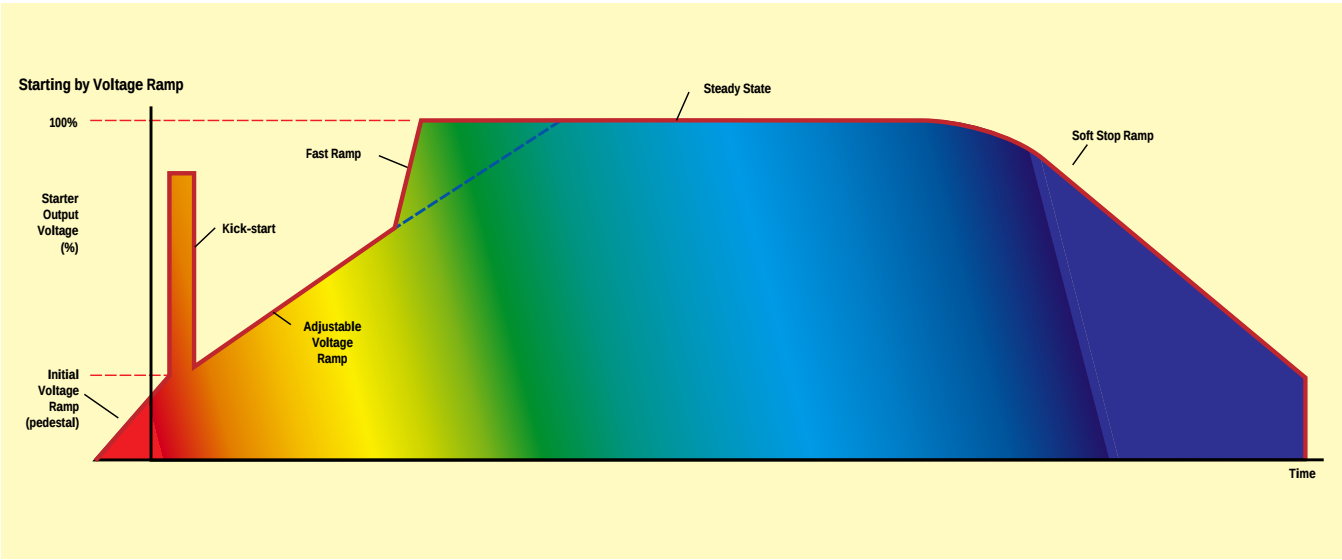
The ASTAT-IBP is UL listed to UL508 and C-UL listed to CSA C22.2 #14.

# A full array of *standard* features gives you more flexibility.

- **Soft start/stop** works without steps or transitions, reducing stress on belts, transmissions and coupling parts. These settings are adjustable from 1 to 45 seconds.
- **Adjustable initial torque** adapts to loads by allowing settings of 15% to 80% of normal motor starting torque.
- **Current limit** adjusts limit from 200% to 450% of the starter rating. This is useful in applications where peak current is critical for reducing brownout conditions or for keeping voltage-sensitive equipment on-line during motor starting.
- **Kick start** boosts initial voltage to loads that pose difficult starting conditions. To break away loads with high initial friction, the motor receives up to a 999 ms 90% voltage limit.
- **Built-in snubbers and MOVs** prolong the starter's life and help protect equipment from voltage spikes and other line transients.
- **Pump control** mode can be selected during setup. When utilized with soft start, the voltage ramp accelerates the motor from the pre-selected pedestal (initial torque) to 100% over a pre-selected time period and stops the load upon command with the special non-linear pump control deceleration ramp. This reduces fluid surges and water hammer.
- **Protective shutdown** from motor thermistors protect motors during overtemperature conditions.
- **Lockout setting and thermocouple** are combined to protect the SCRs from overheating due to excessive starts per hour. The lockout setting is user programmable and is set during initial setup based on the starting current and the acceleration ramp time.
- **Type 2 protection** is achieved in conjunction with optional semi-conductor fuses.

***PLUS:***

- 3-segment voltage ramp, adjustable current limit, alphanumeric digital display, and built-in electronic overload.



# Available Ratings

| Current Rating Amps | Horsepower | | | | KW 1.0 S.F. 380V/415V | Catalog Number |
|---|---|---|---|---|---|---|
| | 200V | 230V | 460V | 575V | | |
| 55 | 15 | 20 | 40 | 50 | 30 | QI3KDA |
| 68 | 20 | 25 | 50 | 60 | 37 | QI3LDA |
| 80 | 25 | 25 | 60 | 75 | 37 | QI3YDA |
| 105 | 30 | 30 | 75 | 75 | 55 | QI3MDA |
| 130 | 40 | 50 | 100 | 125 | 63 | QI3ZDA |
| 156 | 50 | 60 | 125 | 150 | 75 | QI3NDA |
| 192 | 60 | 75 | 150 | 200 | 90 | QI3PDA |
| 248 | 75 | 100 | 200 | 250 | 110 | QI3QDA |
| 302 | 100 | 100 | 250 | 300 | 160 | QI3RDA |
| 361 | 125 | 150 | 300 | 350 | 200 | QI3SDA |

## Standards and Listings

- UL listed to UL508, File E100757
- C-UL listed to CSA C22.2 #14

## Available Enclosed Forms

- Type 1 and Type 12/3R
- Non-Combination
- Combination, Fused Disconnect
- Combination, Circuit Breaker

## Available Options

**Isolation contactor**

**SCR fuses**

**Pilot devices**

- Start/Stop Push Buttons
- H-O-A Selector Switch
- Red Light
- Green Light
- Maintenance Bypass Switch

**Auxiliary relays**

- 3NO-1NC
- 2NO-2NC
- 1NO-3NC

**Also available in Motor Control Center construction**

**For pricing and technical information see the ASTAT-IBP Purchasing Guide (DEP-085).**

***GE Electrical Distribution & Control***

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*DEA-198 0298 BL*