



BENSHAW

Applied Motor Controls

AN AMCONEX GROUP COMPANY

Aggregate SafeStart™



PREPACKAGED STARTER WITH ATL BYPASS, HEAVY DUTY 480V, NEMA 12 AND 3R, DUAL REDUNDANT

This innovative starter is the industry leader when it comes to safety.

Benshaw's newly designed SafeStart™ enclosure sets the bar for protection by utilizing a separate, but inclusive, low-voltage compartment that isolates the control logic, lights, meters, relays and HMI.

Rapid | Rugged | Global



SafeStart™ | Low Voltage Solid State Starter

Benshaw's SafeStart™ Series sets new industry standards for low voltage soft start safety and performance.

SafeStart™ Series starters provide the same rugged reliability you've come to expect from Benshaw ... with solid state reduced voltage starting for normal operation, and full voltage emergency backup starting with complete electronic motor protection at the flip of a switch.

The starter's unique dual redundant design is ideal for critical applications where downtime is extremely disruptive to production operations and cannot be tolerated.

Plus, you gain peace of mind knowing you'll never need to access the high-voltage section to check parameters, control logic or status again.



KEY FEATURES

- 65KAIC rated
- Pad lockable NEMA 12 enclosure (3R lockable)
- Isolation Section: controls to be housed in isolated LV door-mounted bucket. Provides safe access to 120VAC controls without entering the power section of the starter
- 500% — 30 seconds rated solid state starter, UL certified and listed
- 1800 PIV rated SCRs, UL certified and listed
- 125% continuous duty rated solid state starter, UL certified and listed
- Benshaw inline contactor
- Full HP rated bypass contactor with a 1.15 service factor, wired for normal bypass operation and full voltage start and run operation, with normally open auxiliary contact
- Selector switch for selecting solid state or full voltage operation mounted inside enclosure
- Separately mounted “SPD” Series overload relay wired for full voltage start and run operation.
- 110 volt control power transformer with primary and secondary fuses
- Ground fault protection
- Door-mounted start and stop push-buttons
- Door mounted digital ammeter (utilizing SPD Series Interface for display)
- Door-mounted keypad

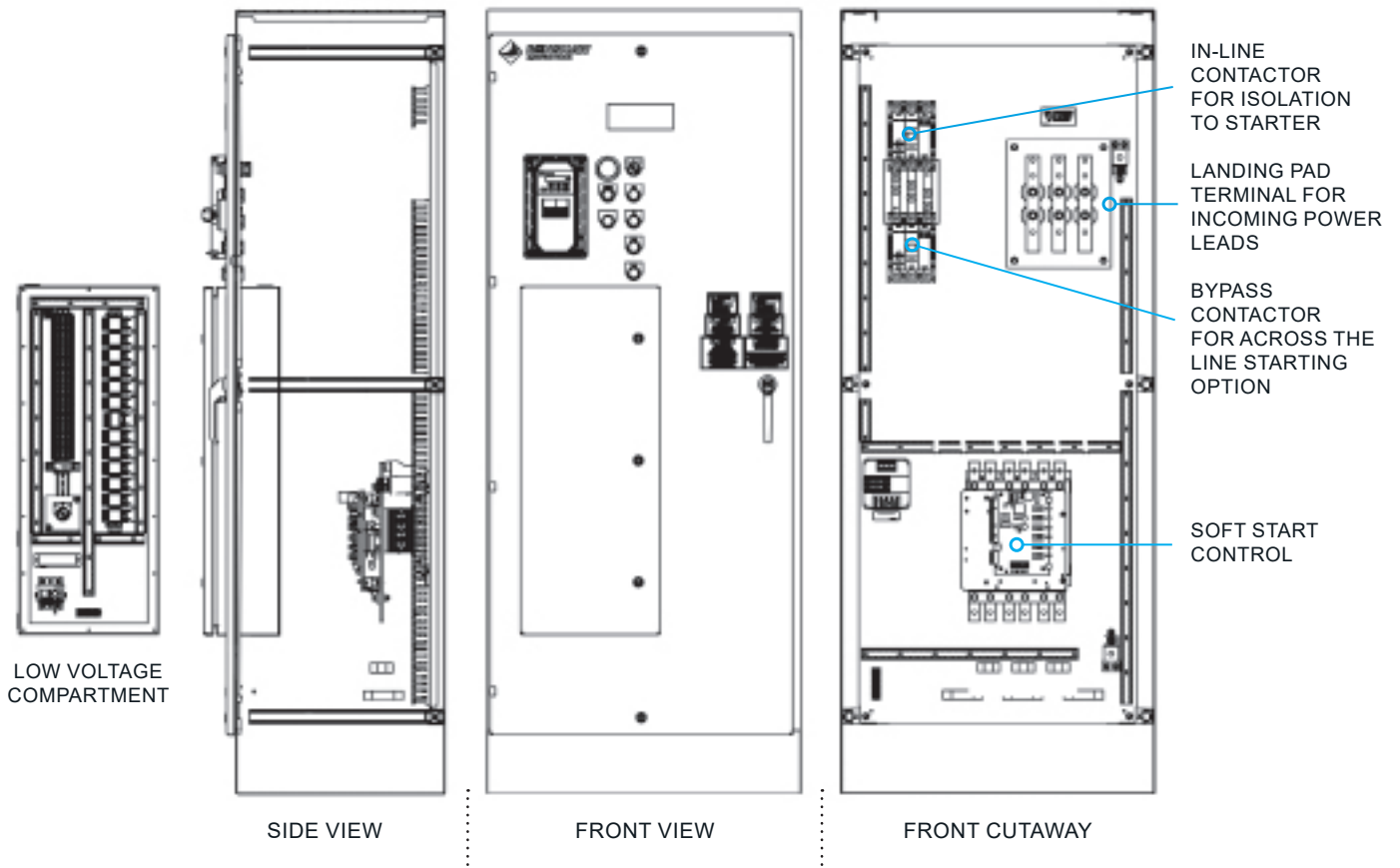


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AGGREGATE SAFE STARTER (100HP UNIT SHOWN)



A low voltage compartment is used to separate all 120 volt controls from high voltage wiring and components.

- Door-mounted run indicating light
- Door-mounted local-off remote switch
- Door-mounted overload reset
- Terminal strip mounted inside enclosure for remote start/stop connection
- Auxiliary relay with (2) Form C run contacts
- Benshaw MX3 programmable motor controller with soft start, soft stop and motor protection capabilities
- RS485 ModBus communications
- Analog I/O



CUSTOMIZE YOUR SAFE STARTER

OPTION	DESCRIPTION
A.	Conveyor/Pump/Fan Spec Additions
B.	Cone Crusher Spec Additions
C.	Jaw Crusher Spec Additions
D.	Dual Motor Starting (will contain dual motor fuses)
E.	Cone Crusher Adders (when specified)
F.	DC Injection Braking
G.	Reversing Motor Capabilities
H.	Circuit Breaker Disconnect

Quarry _____

Application _____

Horsepower _____

Voltage _____

FLA _____



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