PSTX enclosed extreme duty softstarters
For heavy-duty applications with emergency bypass

Designed to perform reliably in nearly any environment and on almost any application, the PSTX-XD series softstarters combine the best of ABB’s wide range of industrial low voltage controls.

Short circuit protection
To handle the role of short-circuit protection and disconnection, the PSTX-XD series utilizes the Tmax® XT molded case circuit breaker to provide the utmost protection under short circuit conditions, with a short circuit rating of 65 kAIC up to the X600 unit. The X700 and X900 units are protected with Class L fuses with a short circuit rating of 100 kAIC.

AC3 rated bypass for emergency starting
The PSTX-XD series relies on the highly acclaimed AF series contactor for routine bypass or starting in the event of an emergency. All AF contactors feature a wide voltage range electronic coil. In addition to the extremely low pull-in and holding power requirements, the low 55% dropout voltage prevents damaging chatter and helps ensure consistent operation in poor power quality conditions.

Electronic overload protection
Every PSTX softstarter comes with integral electronic overload protection that is adjustable to four different tripping classes, preset to Class 30 tripping for extreme applications. This feature also allows for the extreme duty softstarter to be used in less demanding Class 10 applications. In bypass mode, the motor is protected by ABB’s thermal overload relay that provides reliable protection in the event of overload or phase failure.

The PSTX softstarter
Designed around the PSTX softstarter for heavy-duty use with all the exceptional standard features inherent to the open PSTX shown below. The enclosed offering also comes with the following additional features:

- UL 508A label
- UL 3-wire service entrance rating
- NEMA Type 4 enclosure
- Door-mounted keypad and 10 pilot devices
- Built-in Modbus-RTU communications with optional Anybus communication modules available

PSTX open softstarter standard features

- Secure motor reliability
- Improve installation efficiency
- Increase application productivity
Selection guide
Ratings and dimensions

<table>
<thead>
<tr>
<th>Type code</th>
<th>Heavy-duty HP Class 30 starts</th>
<th>Normal-duty HP Class 10 starts</th>
<th>Volts</th>
<th>Amps</th>
<th>SCCR rating (kA)</th>
<th>Enclosure size H&quot; x W&quot; x H&quot;</th>
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*Includes pedestal base for floor mounting

Door-mounted pilot devices include:
- PSTX keypad
- Hand-off-auto selector switch
- Start and stop pushbuttons
- Power on pilot light
- Run pilot light
- Fault pilot light
- Normal - E-bypass selector switch
- E-bypass start and stop pushbuttons
- E-bypass pilot light

Typical heavy-duty applications include:
- Centrifugal fan
- Conveyer belt (long)
- Crusher
- Mill
- Mixer
- Stirrer

Typical normal-duty applications include:
- Belt thruster
- Centrifugal pump
- Compressor
- Conveyer belt (short)
- Elevator

Detail A

See detail A

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