

PSTX enclosed softstarters

For normal-duty and heavy-duty applications



Designed to perform reliably in nearly any environment and on almost any application, the PSTX-ND 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-ND series utilizes the Tmax 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.

Electronic Overload Protection

Every PSTX softstarter comes with integral electronic overload protection that is adjustable to four different tripping classes, preset to Class 10 tripping for normal-duty applications. This feature also allows the unit to select Class 30 tripping for heavy-duty applications, per the selection guide chart.

The PSTX Softstarter

Design around the PSTX softstarter for normal-duty use with all the great 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 up to and including the X700 design
- NEMA Type 12, 3R or 4 enclosure options
- Door-mounted keypad and six (6) pilot devices
- Built-in Modbus-RTU communications
- Optional Anybus communication modules available for most all communication protocols

PSTX softstarter standard features

Current limit Current limit ramp and dual current limit Electronic motor overload protection Dual overload protection Underload protection Power factor protection Locked rotor underload protection Current/ Voltage protection Phase reversal/imbalance protection Customer defined protection Motor heating PTC/PT100 input for motor protection Overvoltage/undervoltage protection Earth-fault protection Built-in bypass Inside-delta connection possible Graphical display and keypad Detachable keypad Motor runtime and start count Programmable warning functions Diagnostics Overload time-to-trip Overload time-to-cool Analog output Fieldbus output Event log Multiple languages Electricity metering Torque control Torque limit Coated PCBA Limp mode Jog with slow speed forward/reverse Dynamic brake Stand still brake Sequence start Full voltage start Kick start Automatic pump cleaning	17	
Secure motor reliability	Improve installation efficiency	Increase application productivity

• Standard

Selection guide

Ratings and dimensions

Type code	Heavy-duty HP Class 30 starts	Normal-duty HP Class 10 starts	Volts	Amps	SCCR Rating	Enclosure size H" x W" x D"	Weight in lbs
X20-B_-48-ND	15	20	480	28	65kA	24 x 20 x 12	77
X50-B_-48-ND	40	50	480	68	65kA	24 x 20 x 12	77
X75-B_-48-ND	50	75	480	104	65kA	24 x 20 x 12	78
X100-B_-48-ND	75	100	480	130	65kA	30 x 30 x 12	131
X125-B_-48-ND	100	125	480	169	65kA	30 x 30 x 12	131
X150-B_-48-ND	125	150	480	192	65kA	48 x 36 x 16	280
X200-B_-48-ND	150	200	480	248	65kA	48 x 36 x 16	280
X250-B_-48-ND	200	250	480	302	65kA	48 x 36 x 16	291
X300-B_-48-ND	250	300	480	361	65kA	48 x 36 x 16	300
X400-B_-48-ND	300	400	480	480	65kA	48 x 36 x 16	327
X500-B_-48-ND	400	500	480	590	65kA	48 x 36 x 16	353
X600-B_-48-ND	500	600	480	720	65kA	72 x 36 x 24	637
X700-B_-48-ND	600	700	480	840	65kA	91 x 36 x 24	770
X900-F_-48-ND	800	900	480	1062	100kA	85 x 72 x 24 *	1562
X1000-F_-48-ND	900	1000	480	1250	100kA	85 x 72 x 24 *	1562

*Includes pesital base for floor mounting

Replace _ in the type code for specific enclosure type:

2 = NEMA/UL Type 12

3 = NEMA/UL Type 3R

4 = NEMA/UL Type 4

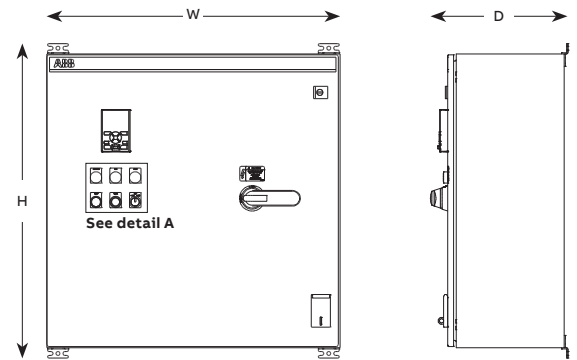


Typical heavy-duty applications include:

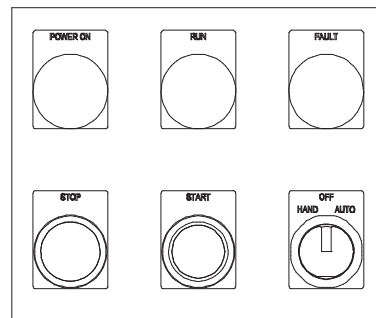
- Centrifugal fan
- Conveyor belt (long)
- Crusher
- Mill
- Mixer
- Stirrer

Typical normal-duty applications include:

- Belt thruster
- Centrifugal pump
- Compressor
- Conveyor belt (short)
- Elevator



Detail A



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