Softstarters

Type PSR, PSE and PSTX

A part of your motor starting solution

Motors use almost one third of the world’s generated electricity. So it is safe to say that reliable motor operation is crucial to our modern way of life.

Why motor starting matters

- Around 90% of all these motors run at full speed. It’s important how we operate them.

Motor starting solutions

- DOL and Y/D
  - Direct start and stop
  - Full speed application

- Softstarters
  - Soft start and stop
  - Full speed applications

- Drives
  - Soft start and stop
  - Variable speed applications

Common applications for Softstarters

- Pump
  - Eliminating water hammering with torque control

- Compressor
  - Full control of current with current limit

- Fan
  - Soft starting adjusted to application

- Conveyor belt
  - Avoid overheating with overload protection

42% of all electricity used powers industry

2/3 of this is used by electric motors

= 28% global electricity consumption

Softstarter

A full-speed starter that accelerates, decelerates and protects three-phase motors.

Specifications subject to change without notice.
ABB softstarters
Overview

THE COMPLETE SOLUTION
Enclosed
Key features:
• Protection Device (Panel Disconnect) or Bracket
• SERA E Enclosure
• Driver Wound Keypad
• Integrated Control Transformer
• Optional Full HMI

Technical data:
• Operational voltage: 208-690 V AC
• Rated operational current: 30-520 A
• Short Circuit Breaking Capacity (Icu, Icu & Icu/In)

Increase your motor’s lifetime... With ABB’s softstarters, starting currents are easily optimized to your load, application and motor size.

...by protecting it from electrical elements. Your motor and protection are safeguarded. Dc link allows your motor control from automation equipment and network irregularities.

THE EFFICIENT RANGE
PSE
Key features:
• Soft start/stop with voltage ramp and torque ramp
• Built-in bypass for energy saving and fast installation
• Keys set up with graphical display
• RUN, STOP and event output relays, AO
• Basic motor protection and current limit

Rated operational current: 18-370 A (3 frames)
Operational voltage: 208-600 V AC (1 frame)

The efficient range of ABB softstarters, built in torque control and optimized for energy saving.

Soft start/stop with voltage ramp and torque ramp allows your motor to run smoothly, saving energy and increasing uptime.

THE COMPACT RANGE
PSR
Key features:
• Soft start/stop with voltage ramp
• Built-in bypass for energy saving and fast installation
• Set up with 3 potentiometers
• RUN & STOP output relay
• Power link to back - in total 01 frame sizes

Rated operational current: 30-1250 A
Operational voltage: 220-600 V AC

PSR softstarters... have a compact design and many more features enables you to address your process to its full potential.

SECURE MOTION
Reliability

SECURE MOTION
Reliability

INCREASE INSTALLATION Efficiency

INCREASE APPLICATION Productivity

Reduce your installations time and cost. ABB’s softstarters are easy to install thanks to their compact design and many built-in features.

...by having everything that you need built in. From the bypasses saves energy to the built-in bypasses saves energy... reducing actual operation cost and enabling full generation heat.

Over ten motor protection settings which increases uptime...

Reduce the number of production stops... ABB’s softstarters reduce maintenance costs on your application which increases the efficiency.

...by letting the softstarter do more just starting. Torque control... provides smooth operation and many more features enables you to address your process to its full potential.

CERTIFICATIONS & APPROVALS

CE, cULus, CCC, EAC, ASEC, Japan, ABS, DNV GL, Lloyds Register, CS, KGS, Class NK

Certifications and approvals

USB connection - no need of supply or external power source
Detachable HMI for easy panel mounting
Easy to use with the large backlit graphical display
Detachable HMI for easy panel mounting

Safe motor reliability... many more features enables you to address your process to its full potential.

DIAGNOSTICS

FIELDBUS COMMUNICATION

ELECTRICITY METERING

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