**Softstarters – overview**

**Type PSR - the compact range**

- **PSR**
  - Softstarter type: PSR
  - Motor protection: Fused disconnect
  - Control transformers: PSCT-30, PSCT-50
  - Inverter connection: MCCB Branch protection
  - Interface: Fieldbus communication
  - Control transformers: PSCT-75
  - Motor protection: Fused disconnect
  - Inverter connection: MCCB Branch protection
  - Interface: Fieldbus communication

**Type PSS - the flexible range**

- **PSS**
  - Softstarter type: PSS
  - Motor protection: Fused disconnect
  - Control transformers: PSCT-30, PSCT-50
  - Inverter connection: MCCB Branch protection
  - Interface: Fieldbus communication
  - Control transformers: PSCT-75
  - Motor protection: Fused disconnect
  - Inverter connection: MCCB Branch protection
  - Interface: Fieldbus communication

**Type PST/PSTB - the advanced range**

- **PST/PSTB**
  - Softstarter type: PST/PSTB
  - Motor protection: Fused disconnect
  - Control transformers: PSCT-30, PSCT-50
  - Inverter connection: MCCB Branch protection
  - Interface: Fieldbus communication
  - Control transformers: PSCT-75
  - Motor protection: Fused disconnect
  - Inverter connection: MCCB Branch protection
  - Interface: Fieldbus communication

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**Softstarters – overview**

**On/Ready**

480V, 104°F

3 6 9 12 16 25 30 37 45 60 72 85 105

**Power consumption at 100-240V**

- 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA
  - 12 VA

The by-pass contacts reduce the power loss of the softstarter

The overload relay is always required to open if the OL trips.

**Short circuit current rating**

- 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA
  - 85 kA

**Type J fuse**

- 10 A
  - 20 A
  - 30 A
  - 40 A
  - 50 A
  - 60 A
  - 80 A
  - 100 A
  - 120 A
  - 135 A
  - 170 A

**LED indications**

**PSR**

- Integrated By-Pass, No OL and TOR (PSR25 ... 105)
- Built-in signal relays for Run (PSR3 ... 45)

**Type PSS**

- Built-in By-Pass, No OL and TOR

**Type PST/PSTB**

- Built-in By-Pass, No OL and TOR

**UL, Max. A**

- 3.4
  - 6.1
  - 9
  - 11
  - 15.2
  - 24.2
  - 28
  - 34
  - 46.2
  - 59.4
  - 68
  - 80
  - 104

**Power supply ON**

- External keypad (option 1 turn)
- Inside the PST Softstarter, you will find useful terminals for PTC input and analog output
- Three separate terminals pre-wired
- Inside Delta
- LCD-display with plain words
- Clear information
- Advanced integrated EOL protection
- Programmable overload protection, including: programmable overload protection,

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**Power consumption without by-pass**

- 65 W
  - 100 W
  - 120 W
  - 142 W
  - 160 W
  - 190 W
  - 226 W
  - 291 W
  - 351 W
  - 462 W
  - 590 W
  - 815 W
  - 965 W

The current transformer is integrated into the PST Softstarter, and the current limit function of the PSS is used.

But also to increase the number of starts/h.

The by-pass contactor can be used to reduce the power loss of the softstarter.

The overload relay is always required to open if the OL trips.

Suitable fused disconnect for Type J fuses

- OS60
- OS60
- OS60
- OS100
- OS100
- OS100
- OS200
- OS200
- OS400
- OS400
- OS400
- OES600

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**Control transformers**

- PSCT-40
- PSCT-50
- PSCT-75
- PSCT-100
- PSCT-150
- PSCT-200
- PSCT-250
- PSCT-300
- PSCT-400
- PSCT-500

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**Protection**

- Terminals for PTC input and analog output
- Three separate terminals pre-wired

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**Torque control**

- In Line or Inside Delta for PSR and PST/PSTB
- The Softstarter pages (www.abb.us/lowvoltage)

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**Contact information**

- For complete catalog numbers, see the pertinent product section in the 1SXU000023C0202 Product Selector.

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**Fieldbus communication**

- It is possible to select torque ramp. With the torque control, you can never exceed a set value during start. This will be a function that can be set on the Softstarter pages.
- It is possible to control the softstarter, achieve status information, up- and download of parameters.
- To connect the PST Softstarter to a fieldbus system it is possible to control the softstarter, achieve status information, up- and download of parameters.

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**Torque limit**

- To connect the PST Softstarter to a fieldbus system it is possible to control the softstarter, achieve status information, up- and download of parameters.
ABB offers three softstarter ranges

The complete range

The compact range, PSR...30 covers motor currents from 3 to 105 A.

• Easy to install. Can either be snapped onto a DIN rail or ducts on a given mounting surface.
• Clear setting instructions are provided on the front.
• Analog output.
• LCD display. With 14 languages, a menu system similar to smartphones, it couldn’t be easier to set up and operate!
• Flexible bus communication system. With two connection possibilities, either inline with the motor or external keypad.
• Programmable signal relays.
• Built-in by-pass contactor (On PSTB). Automatic status and event logging, it couldn’t be easier to switch on the unit from your mobile phone, preprogrammed application settings and motor overloads.
• Standard selection. Use “ProSoft” software to size your Softstarter!
• Motor overload protection
• Phase imbalance / phase reversal protection
• Locked rotor protection
• High current protection
• Programmable warning functions
• Programmable fault supervision functions
• Field bus communication enabled
• With two connection possibilities, either inline with the motor or external keypad.

The flexible range, PSS18...300 covers motor currents from 30 A to 1062 A “Inline” and up to 515 A “Inside Delta” configuration.

• Easy to install. Can either be snapped onto a DIN rail or ducts on a given mounting surface.
• Clear setting instructions are provided on the front.
• Analog output.
• LCD display. With 14 languages, a menu system similar to smartphones, it couldn’t be easier to set up and operate!
• Flexible bus communication system. With two connection possibilities, either inline with the motor or external keypad.
• Programmable signal relays.
• Built-in by-pass contactor (On PSTB). Automatic status and event logging, it couldn’t be easier to switch on the unit from your mobile phone, preprogrammed application settings and motor overloads.
• Standard selection. Use “ProSoft” software to size your Softstarter!
• Motor overload protection
• Phase imbalance / phase reversal protection
• Locked rotor protection
• High current protection
• Programmable warning functions
• Programmable fault supervision functions
• Field bus communication enabled

The advanced range, PST30...1050 covers motor currents from 18 A – 250 A “Inline” and up to 1839 A “Inside Delta” configuration.

• Easy to install. Can either be snapped onto a DIN rail or ducts on a given mounting surface.
• Clear setting instructions are provided on the front.
• Analog output.
• LCD display. With 14 languages, a menu system similar to smartphones, it couldn’t be easier to switch on the unit from your mobile phone, preprogrammed application settings and motor overloads.
• Standard selection. Use “ProSoft” software to size your Softstarter!
• Motor overload protection
• Phase imbalance / phase reversal protection
• Locked rotor protection
• High current protection
• Programmable warning functions
• Programmable fault supervision functions
• Field bus communication enabled

The complete range

Softstarters for every customer need...

Why soft start?

Do you have rough and jerky motor starts? High starting currents and motor overloads? An inefficient power factor? With a soft-starter from ABB you can quickly and effectively solve all of these problems.

When it is important to have smooth start-up you can use a soft-starter from ABB. Instead of switching directly to full voltage the soft-starter limits the current. Ensures gradual voltage increase during start-up which naturally limits the current.

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It is important to have smooth start-up which naturally limits the current. Ensures gradual voltage increase during start-up which naturally limits the current.

Soft starters for every customer need...

Why soft start?

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