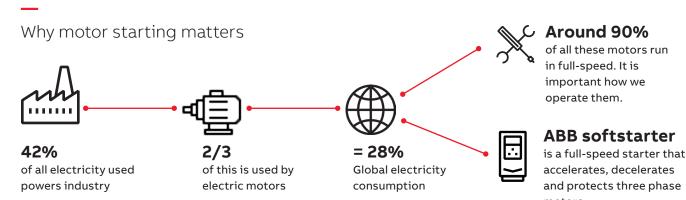


ABB

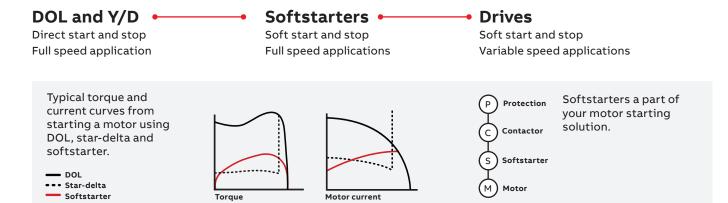
ABB softstarters

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.



Motor starting solutions



Common applications for Softstarters

Pumn

Eliminating water hammering with torque control

The ABB softstarter feature torque control stop eliminates water hammering and prolongs the lifetime of the system, while reducing pump downtime.

Fan

Soft starting adjusted to application

It is possible to adjust the settings to fit almost any starting condition, from unloaded to fully loaded.

Compressor

Full control of current with current limit

The feature current limit makes it possible to start the motor securely even in a weaker network, improving the availability of the equipment and system. Reducing the current means reducing the stress on cables, network and motor.

Conveyor belt

Avoid overheating with overload protection

ABB's overload protection feature shuts down the motor in case of overload, avoiding overheating.

ABB - Campus Montréal

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CANADIAN PANORAMA

Softstarters

Type PSR, PSE and PSTX



arter Canadian panorama type PSR, PSE and PSTX, 1SXP

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ABB softstarters

Overview



THE ADVANCED RANGE **PSTX**

Key features

- Multiple different start and stop ramps
- Built-in bypass for energy saving and fast installation
- Detachable IP66/4X outdoor keypad
- 3 DI, 3 DO, 1 AO, PTC/PT100, Built-in Modbus
- Complete motor protection
- Extensive functionality

Technical data

- Operational voltage: 208-600 and 208-690 V AC (2
- Rated control supply voltage: 100-250 V AC, 50/60 Hz
- PSTX rated operational current: 30-1250 A (inside-delta: 2160 A) (6 frames)
- Three-phase controlled
- Both in-line and inside-delta connection is possible

Certifications and approvals

• CE, cULus, CCC, EAC, ANCE, C-tick, ABS, DNV GL, Lloyd's Register, CCS, PRS, Class NK

THE EFFICIENT RANGE **PSE**

Key features

- Soft start/stop with voltage ramp and torque ramp
- Built-in bypass for energy saving and fast installation
- Easy set-up with graphical display
- Run, TOR and event output relays, AO
- · Basic motor protection and current limit

Technical data

- Operational voltage: 208-600 V AC (1 frame)
- Wide rated control supply voltage: 100-250 V AC, 50/60 Hz
- Rated operational current: 18-370 A (3 frames)
- Two-phase controlled

Certifications and approvals

• CE, cULus, CCC, EAC, ANCE, C-tick, ABS, DNV GL, Lloyd's Register, CCS, PRS, Class NK

THE COMPACT RANGE

Key features

- Built-in bypass for energy saving and fast installation

- Run & TOR output relays
- Few items to stock in total only 4 frame sizes

Technical data

- Operational voltage: 208-600 V AC
- Wide rated control supply voltage: 100-240 V AC, 50/60 Hz or 24 V AC/DC

• CE, cULus, CCC, EAC, ANCE, C-tick, PRS

PSR

- Soft start/stop with linear voltage ramp
- Set-up with 3 potentiometers

- Rated operational current: 3-105 A (4 frames)
- Two-phase controlled

Certifications and approvals

THE COMPLETE SOLUTION

Enclosed Key features

- Protection Device (Fused Disconnect or Breaker)
- NEMA 4 Enclosure
- Door Mounted Keypad
- Integrated Control Transformer
- Optional Full Bypass

Technical data

- Operational voltage: 220-600 V AC
- Rated operational current: 30-1250 A
- · Short Circuit Breaking Capacity (25kA, 65kA & 100kA)

Certifications and approvals

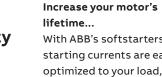
CSA

PSTX SOFTSTARTER HMI

Key features

- Customizable display for important status information
- Application assistant for fast and easy set-up
- IP66 (1, 4x outdoor, 12) protection against water and dust
- · Easy to use with the large back-lit graphical display
- Detachable HMI for easy panel door mounting
- Set-up and firmware update the PSTX with USB connection - no need of supply or main voltage

SECURE MOTOR Reliability



...by protecting it from

IMPROVE

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

electrical stresses. Over ten motor protection features are included to keep your motor safe from overloads and network irregularities.

INSTALLATION Efficiency

Reduce your installation time and panel size...

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. Built-in bypass saves energy and space while reducing heat generation: a complete motor starting solution in

one unit — designed and

verified by ABB.

INCREASE APPLICATION

Reduce the number of production stops... **Productivity** ABB's softstarters reduce mechanical stress on your application which increases

uptime.

...by letting the softstarter do more than just starting. Torque control, pump cleaning, motor break and many more features enables you to use your process to its full potential.







● = Standard, *= Options, — = N/A

Normal start overview: PSR, PSE and PSTX

	PSE PSTX		PSR6	PSR9	PSR12	PSR16	PSR25	PSR30	PSR37	PSR45	PSR60	PSR72	PSR85	PSR105												
						A						В				С										
						PSE18	PSE25	PSE30	PSE37	PSE45	PSE60	PSE72	PSE85	PSE105	PSE142	PSE170	PSE210	PSE250	PSE300	PSE370						
								A				I	В	С			D		E		F					
								PSTX30	PSTX37	PSTX45	PSTX60	PSTX72	PSTX85	PSTX105	PSTX142	PSTX170	PSTX210	PSTX250	PSTX300	PSTX370	PSTX470	PSTX570	PSTX720	PSTX840	PSTX1050	PSTX1250
	(440-480 V) hp	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150	200	250	300	400	500	600	700	900	1000
UL	UL, Max. A	3.4	6.1	9	11	15.2	24.2	28	34	46.2	59.4	68	80	104	130	169	192	248	302	361	480	590	720	840	1062	1250
	(550-600 V) hp	2	5	7.5	10	10	20	25	30	40	50	60	75	100	125	150	200	250	300	350	500	600	700	800	1000	1200
UL	UL, Max. A	3.4	6.1	9	11	15.2	24.2	28	34	46.2	59.4	68	80	104	130	169	192	248	302	361	480	590	720	840	1062	1250

Available communication protocols	PSR	PSE	PSTX					
Modbus RTU	*	•	•					
PROFIBUS	*	*	*					
DeviceNet	*	*	*					
EtherNet/IP	-	-	*					
PROFINET	-	-	*					
Modbus TCP	-	*	*					
● = Standard, *= Options — = N/A								