



Catalog

# Softstarters Type PSTX

Power and productivity  
for a better world™

**ABB**



# Softstarters type PSTX

## PSTX - The advanced range

Introduction	4
Overview	6
Ordering details	8
Accessories, Ordering details	12
Technical data	13
Anybus	18
Wall mounting instructions	19
Dimensions	20
Circuit diagrams	21
Certifications and approvals	22

# PSTX – The advanced range

## Introduction



The PSTX combines many years of research and product development with extensive knowledge of application specific requirements and needs. It is our latest advancement in motor control and protection and adds new functionality and increased reliability.

- Three-phase controlled
- Operational voltage: 208 – 690 VAC
- Wide rated control supply voltage: 100 – 250 V, 50/60 Hz
- PSTX rated operational current: 30 to 1250 A (inside-delta: 2160 A)
- Both in-line and inside-delta connection
- Coated circuit boards protecting from dust, moist and corrosive atmosphere
- Detachable keypad rated IP66 (Type 1, 4X,12)
- Graphical display with 15 languages for easy setup and operation
- Built-in bypass for energy saving and easy installation
- Built-in Modbus RTU for monitoring and control
- Support for all major communication protocols
- Analog output for measurement of current, voltage, power factor etc.

## Secure motor Reliability

## Improve installation Efficiency

## Increase application Productivity

### Complete motor protection

The PSTX offers complete motor protection in only one unit and is able to handle both load and network irregularities. PT-100, earth fault protection and over/under voltage protection along with many other functions keep your motor safer than ever.

### Three types of current limit

PSTX offers three types of current limit: standard, dual and ramp. This gives you full control of your motor during start. It also allows you to use your motor in weaker networks.

### Built-in bypass saves time and energy

When reaching full speed, the PSTX will activate its bypass. This saves energy while reducing the softstarter's heat generation. On the PSTX, the bypass is built in and verified by ABB, saving you time during installation and space in your panel.

### Easy-to-use and detachable keypad

A user-friendly and clear display saves you time and resources during both setup and operation. The detachable keypad is standard on all PSTX softstarters.

### Complete control of pumps

Time to use your processes to their full potential. The PSTX features many application enhancing features, including torque control: the most efficient way to start and stop pumps. The pump cleaning feature can reverse pump flow and clean out pipes, securing uptime of your pump system.

### Jog with slow speed

The slow speed forward and backward jog feature will make you more flexible when operating e.g. conveyor belts and cranes. The PSTX provides positioning capabilities, letting you take control of your process.

# PSTX – The advanced range

## Introduction



### Keyhole mounting for quick installation

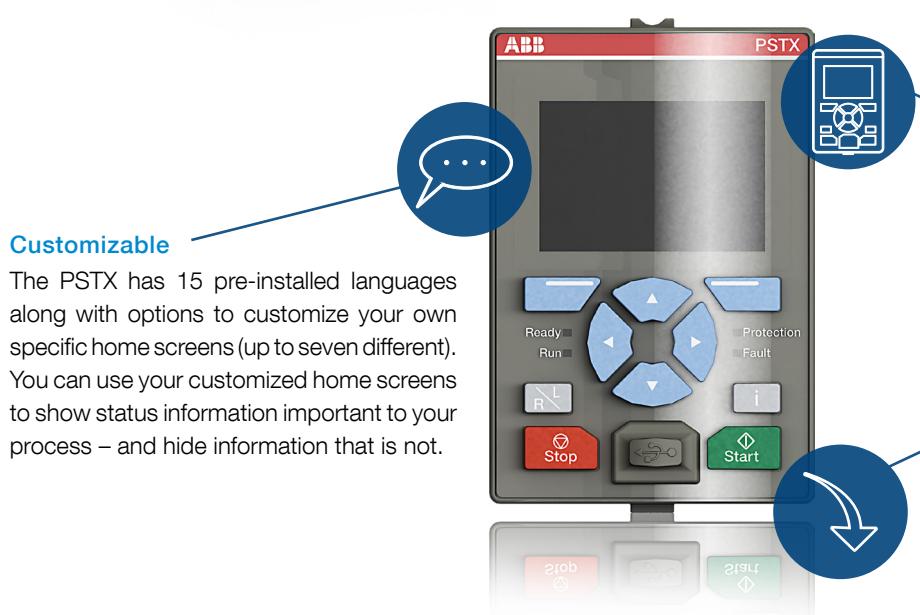
The PSTX is simple and quick to install using keyhole mounting, saving you valuable time during the installation.

### A compact motor starting solution

When your application reaches full speed, a bypass will reduce the softstarter's energy consumption. It also reduces heat generation which means you can save money by reducing the need of added cooling equipment. On the PSTX, the bypass is built in and verified by ABB.

### Clear markings on the front

With the PSTX, you do not need a manual to handle control circuit connections. With the self-explanatory markings on the front you can verify that the connections are done right. And with basic data on the front, identification is simple without having to take the product down.



### Customizable

The PSTX has 15 pre-installed languages along with options to customize your own specific home screens (up to seven different). You can use your customized home screens to show status information important to your process – and hide information that is not.

### Easy to learn

A large graphical display along with built-in assistants make learning how to handle the PSTX fun and simple. The interface resembles other interfaces from ABB which will streamline and help with training of field personnel.

### Detachable

The PSTX comes with a detachable keypad as standard. It can be placed on your panel door, meaning you do not have to interrupt your process in order to read status information or to change settings.

# PSTX – The advanced range

## Overview



Normal start In-Line connected (400 V) kW	PSTX30	PSTX37	PSTX45	PSTX60	PSTX72	PSTX85	PSTX105	PSTX142	PSTX170							
IEC, Max. A	15	18.5	22	30	37	45	55	75	90							
(440-480 V) hp	30	37	45	60	72	85	106	143	171							
UL, Max. A	20	25	30	40	50	60	75	100	125							
	28	34	42	60	68	80	104	130	169							
400 V, 40 °C																
Using manual motor starter or MCCB, type 1 coordination will be achieved. <sup>1)</sup>																
<b>MCCB (50 kA)</b>								XT2S160								
								XT4S250								
Using gG fuses, type 1 coordination will be achieved. To achieve type 2 coordination, semiconductor fuses must be used. <sup>1)</sup>																
<b>Fuse protection (80 kA), Semiconductor fuses, Bussmann</b>																
170M1567		170M1568	170M1569		170M1571	170M1572	170M3819	170M5810	170M5812							
Suitable switch fuse for the recommended semiconductor fuses. <sup>1)</sup>																
<b>Switch fuse</b>																
OS32G		OS63G		OS125G		OS250	OS400									
The line contactor is not required for the softstarter itself but often used to open if OL trips <sup>1)</sup>																
<b>Line contactor</b>																
AF30		AF38	AF52	AF65	AF80	AF96	AF116	AF140	AF190							
Overload protection is always required to protect the motor <sup>1)</sup>																
<b>Electronic overload relay</b>																
Built-in																

<sup>1)</sup> This is an example of short circuit coordination. For more examples see: [applications.it.abb.com/SOC](http://applications.it.abb.com/SOC)

# PSTX – The advanced range

## Overview



Normal start In-Line connected	PSTX210	PSTX250	PSTX300	PSTX370	PSTX470	PSTX570	PSTX720 <sup>2)</sup>	PSTX840 <sup>2)</sup>	PSTX1050 <sup>2)</sup>	PSTX1250 <sup>2)</sup>
(400 V) kW	110	132	160	200	250	315	400	450	560	710
IEC, Max. A	210	250	300	370	470	570	720	840	1050	1250
(440-480 V) hp	150	200	250	300	400	500	600	700	900	1000
UL, Max. A	192	248	302	361	480	590	720	840	1062	1250

400 V, 40 °C

Using manual motor starter or MCCB, type 1 coordination will be achieved. <sup>1)</sup>	<b>MCCB (50 kA)</b>						Contact ABB for more information
T4S320	T5S400	T5S630	T7S800				
Using gG fuses, type 1 coordination will be achieved. To achieve type 2 coordination, semiconductor fuses must be used. <sup>1)</sup>	<b>Fuse protection (80 kA), Semiconductor fuses, Bussmann</b>						
170M5812	170M5813	170M6812	170M6813	170M6813	170M6814		Contact ABB for more information

Suitable switch fuse for the recommended semiconductor fuses. <sup>1)</sup>	<b>Switch fuse</b>						Contact ABB for more information
	OS400		OS630				

The line contactor is not required for the softstarter itself but often used to open if OL trips. <sup>1)</sup>	<b>Line contactor</b>									
	AF205	AF265	AF305	AF370	AF460	AF580	AF750	AF1350	AF1650	-

Overload protection is always required to protect the motor <sup>1)</sup>	<b>Electronic overload relay</b>								
	Built-in								

<sup>1)</sup> This is an example of short circuit coordination. For more examples see: [applications.it.abb.com/SOC](http://applications.it.abb.com/SOC)

<sup>2)</sup> To be released Q4 2015









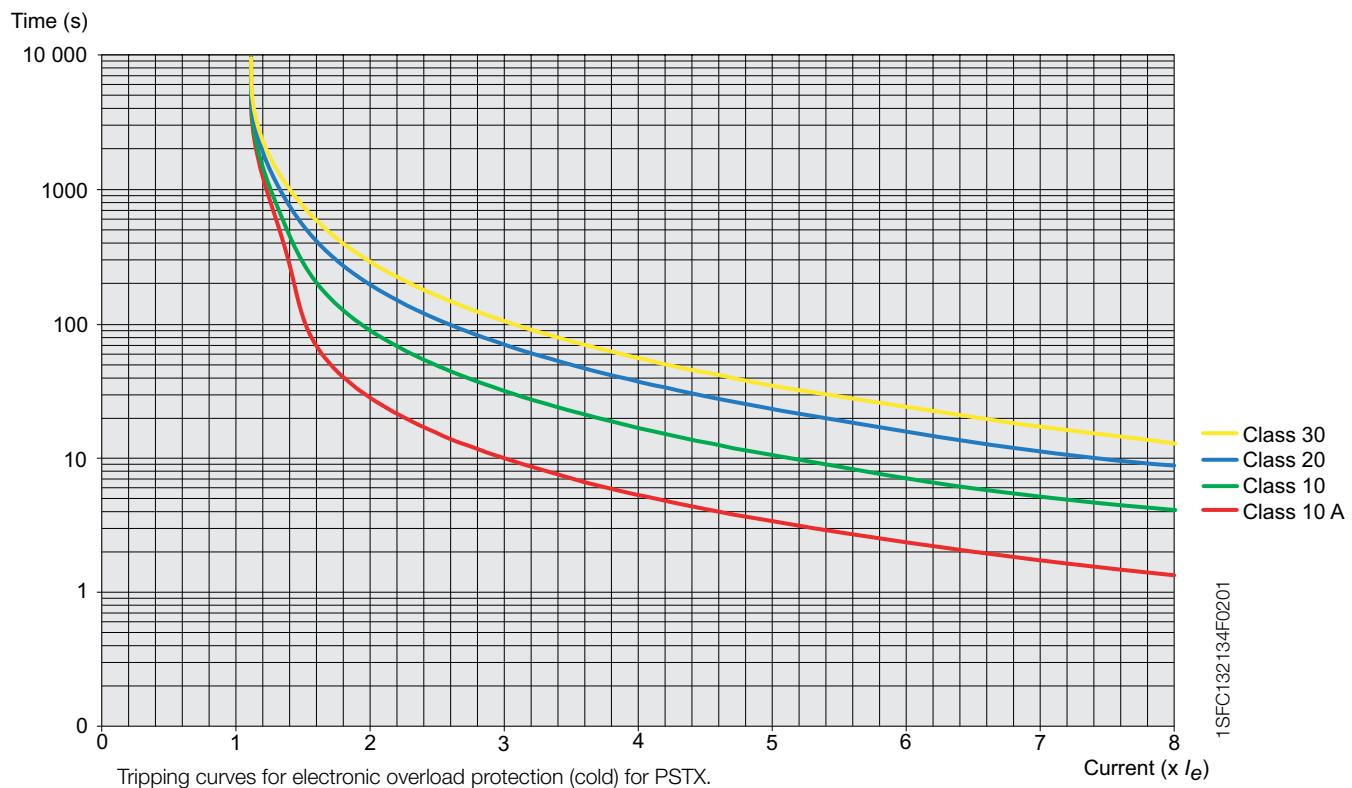


# PSTX – The advanced range

## Technical data

### Tripping curves for the integrated electronic overload protection

All units have an integrated electronic overload protection that can be set to four different tripping classes. Below you find a curve for each tripping class in cold state. These tripping curves are valid for PSTX.



# PSTX – The advanced range

## Technical data

Softstarter types	PSTX30 ... PSTX1250	
Rated insulation voltage $U_i$	690V	
Rated operational voltage $U_e$	208...600 V, 208...690V + 10% / -15%, 50/60Hz ±5%	
Rated control supply voltage $U_s$	100...250 V +10% / -15%, 50/60Hz ±5%	
Rated control circuit voltage $U_c$	Internal or external 24 V DC	
Starting capacity at $I_e$	4 x $I_e$ for 10 sec.	
Number of starts per hour	10 for PSTX30 ... PSTX370 <sup>1)</sup>	6 for PSTX470 ... PSTX1250 <sup>1)</sup>
Overload capability	Overload class	
Ambient temperature	during operation during storage	-25...+60 °C, (-13...+140 F) <sup>2)</sup> -40...+70 °C, (-40...+158 F)
Maximum altitude		4000 m (13123 ft) <sup>3)</sup>
Degree of protection	main circuit Supply and control circuit	- IP20
Main circuit	Built-in bypass contactor Cooling system - Fan cooled	Yes Yes (thermostat controlled)
HMI for settings (Human Machine Interface)	Display Languages	LCD type, graphical English, German, Italian, Dutch, Chinese, Finnish, Swedish, French, Spanish, Russian, Portuguese, Turkish, Polish and Czech
Signal relays	Keypad Number of programmable signal relays K4 K5 K6 Rated operational voltage, $U_e$ Rated thermal current $I_{th}$ Rated operational current $I_e$ at AC-15 ( $U_e=250$ V)	2 selection keys, 4 navigation keys, start key, stop key, info key and remote/local key 3 (each relay can be programmed to be Run, Bypass or Event signal) Default as Run signal Default as Top of Ramp (Bypass) signal Default as Event signal 250 V AC/24 V DC 5 A 1.5 A
Analog output	Output signal reference Type of output signal	0...10 V, 0...20 mA, 4...20 mA I Amp, U Volt, P kW, P hp, Q kVar, TmpMot, TmpSCR, cosPhi
Control circuit	Number of inputs Number of additional programmable inputs	2 (start, stop) 3 (Each input can be programmed to be either; Non, Reset, Enable, Jog, Direct on line-On, Start motor 2, Start motor 3 or FieldBus-disable)
Signalling indication LED	Power on Run Fault Protection	Green Green Red Yellow
External keypad	Detachable keypad Display Ambient temperature During operation During storage Degree of protection	Yes LCD type, graphical -25...+60 °C, (-13...+140 F) -40...+70 °C, (-40...+158 F) IP66 (Type 1, 4X, 12)
Start and stop functions	Soft start with voltage ramp Soft stop with voltage ramp Soft start with torque control Soft stop with torque control Kick start Full voltage start Sequence start Current limit Dual current limit Current ramp Torque limit Motor heating Jog with slow speed, forward and reverse Anti-backspin Limp mode with two-phase motor control if one set of thyristors is shorted	Yes Yes Yes Yes Yes Yes Yes, 3 different sets of settings Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Field bus connection	Built-in Modbus RTU Connection for Anybus Connection for ABB FieldBusPlug	Yes Yes Yes, with adapter

<sup>1)</sup> Valid for normal start (class 10) for 50% on time and 50% off time. If other data is required, contact your sales office.

<sup>2)</sup> Above 40 °C (104 F) reduce the rated current with 0.8% per °C (0.44% per F).

<sup>3)</sup> When used at high altitudes above 1000 meters (3281 ft) up to 4000 meters (13123 ft)

you need to derate the rated current using the following formula:

[ % of  $I_e = 100 - \frac{x-1000}{x} \times 100$  ] x = actual altitude for the softstarter, [ % of  $I_e = 100 - \frac{x-3280}{x} \times 100$  ] x = actual altitude for the softstarter in feet.

# PSTX – The advanced range

## Technical data

Softstarter types		PSTX30 ... PSTX1250
<b>Protections</b>		
Electronic overload protection, EOL	Yes (Class 10A, 10, 20, 30)	
Dual overload (separate overload for start and run)	Yes	
PTC connection	Yes	
PT1-100 connection	Yes	
Locked rotor protection	Yes	
Current underload protection	Yes	
Current imbalance protection	Yes	
Power factor underload protection	Yes	
Under voltage protection	Yes	
Over voltage protection	Yes	
Voltage imbalance protection	Yes	
Earth fault protection / ground fault protection	Yes	
High current protection ( $8 \times I_e$ )	Yes	
Phase reversal protection	Yes	
Fieldbus fault	Yes	
Max number of starts/hour	Yes	
Too long start time protection	Yes	
<b>Warnings (pre-warning) and embedded diagnostics</b>		
Current underload warning	Yes	
Current imbalance warning	Yes	
Voltage imbalance warning	Yes	
Thyristor overload warning (SCR)	Yes	
Electronic overload Time-to-trip	Yes	
Electronic overload Time-to-cool	Yes	
Over voltage warning	Yes	
Under voltage warning	Yes	
Power factor underload warning	Yes	
Locked rotor warning	Yes	
Faulty fans	Yes	
THD(U) - Total Harmonic Distortion	Yes	
Counted number of start sequences	Yes	
Motor runtime measurement	Yes	
Thyristor runtime measurement	Yes	
Auto phase sequence detection	Yes	
Electricity metering	Yes	
Voltage sags detection	Yes	
EOL warning	Yes	
<b>External faults detection</b>		
Phase loss	Yes	
High current	Yes	
Low control supply voltage	Yes	
Open circuit motor side	Yes	
Faulty connection	Yes	
Bad network quality	Yes	
<b>Internal faults detection</b>		
Thyristor overload	Yes	
Short circuit	Yes	
Open circuit thyristor or gate	Yes	
Bypass open	Yes	
Shunt fault	Yes	
<b>PTC input</b>	Switch off resistance Switch on resistance	2825 ohm ± 20% 1200 ohm ± 20%
<b>Other functions</b>	Real time clock Event log Emergency mode Auto restart Secure settings Keypad password	Yes Yes Yes Yes Yes Yes

For all functions and features see installation and commissioning manual.

# PSTX – The advanced range

## Technical data

### Fuse ratings and power losses

For softstarter	Recommended ABB's overload protection		Max power loss at rated $I_e$	Max fuse rating - main circuit <sup>1)</sup> Bussmann fuses, DIN43 620 (Knife)		Power requirements supply circuit Holding (VA) / Pull-in(VA)
	Type	Current range		A	W	
<b>PSTX</b>						
PSTX30	Integrated	9 - 30	0.8	100	170M1567	000 49/51
PSTX37	Integrated	11.1 - 37	1.2	125	170M1568	000 49/51
PSTX45	Integrated	13.5 - 45	1.8	160	170M1569	000 49/51
PSTX60	Integrated	18 - 60	3.2	160	170M1569	000 49/51
PSTX72	Integrated	21.6 - 72	4.7	250	170M1571	000 49/51
PSTX85	Integrated	22.5 - 85	6.5	315	170M1572	000 49/51
PSTX105	Integrated	31.8 - 106	10	400	170M3819	1* 49/51
PSTX142	Integrated	42.9 - 143	18	500	170M5810	2 49/53
PSTX170	Integrated	51.3 - 171	26	630	170M5812	2 49/53
PSTX210	Integrated	63 - 210	48	630	170M5812	2 56/276
PSTX250	Integrated	75 - 250	68	700	170M5813	2 56/276
PSTX300	Integrated	90 - 300	97	800	170M6812	3 56/276
PSTX370	Integrated	111 - 370	148	900	170M6813	3 56/276
PSTX470	Integrated	141 - 470	99	900	170M6813	3 67/434
PSTX570	Integrated	171 - 570	146	900	170M6813	3 67/434
PSTX720	Integrated	216 - 720	78		Contact ABB for more information	
PSTX840	Integrated	252 - 840	106		Contact ABB for more information	
PSTX1050	Integrated	315 - 1050	165		Contact ABB for more information	
PSTX1250	Integrated	375 - 1250	234		Contact ABB for more information	

<sup>1)</sup> For the supply circuit 6 A delayed, for MCB use C characteristics.

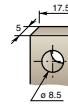
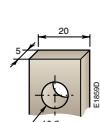
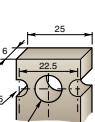
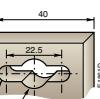
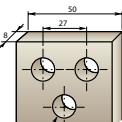
<sup>2)</sup> For inside delta connection the fuses shall be placed inside the delta. Contact ABB for more information.

### PSTX Integrated bypass ratings

Softstarter	PSTX470	PSTX570	PSTX720	PSTX840	PSTX1050	PSTX1250
Integrated contactor	AF370			AF750		
AC-3 rating at 400 V (A)	370			750		-

# PSTX – The advanced range

## Technical data

Main terminals	PSTX30 ... PSTX105	PSTX142 ... PSTX170	PSTX210 ... PSTX370	PSTX470 ... PSTX570	PSTX720 ... PSTX1050	PSTX1250
						
Cu cable - flexible Clamp type Tightening torque	1 x mm <sup>2</sup> Included 8 Nm	10 - 70mm <sup>2</sup> 1SDA066917R1 14 Nm	6 - 120 mm <sup>2</sup> 1SDA055016R1 25 Nm	16 - 240 mm <sup>2</sup> - -	- -	- -
Cu cable - flexible Clamp type Tightening torque	2 x mm <sup>2</sup> Included 8 Nm	6 - 35 mm <sup>2</sup> LZ185-2C/120 1SFN074709R1000 16 Nm	50 - 95 mm <sup>2</sup> OZXB4 <sup>1)</sup> 1SCA022194R0890 22 Nm	70 - 185 mm <sup>2</sup> - -	- -	- -
Cu cable - Stranded Clamp type Tightening torque	1 x mm <sup>2</sup> Included 8 Nm	10 - 70 mm <sup>2</sup> 1SDA066917R1 14 Nm	6 - 150 mm <sup>2</sup> 1SDA055016R1 25 Nm	16 - 300 mm <sup>2</sup> - -	- -	- -
Cu cable - Stranded Clamp type Tightening torque	2 x mm <sup>2</sup> Included 8 Nm	6 - 35 mm <sup>2</sup> LZ185 - 2C/120 1SFN074709R1000 16 Nm	50 - 120 mm <sup>2</sup> OZXB4 <sup>1)</sup> 1SCA022194R0890 22 Nm	70 - 185 mm <sup>2</sup> 120 - 240 mm <sup>2</sup> 35 Nm	- - -	- -
Cu cable - Stranded Clamp type Tightening torque	3 x mm <sup>2</sup> - - -	- - -	- - -	- 70 - 185 mm <sup>2</sup> 1SDA013956R1 45 Nm	- - -	- -
Al cable - Stranded Clamp type Tightening torque	1 x mm <sup>2</sup> - - -	95 - 185 mm <sup>2</sup> 1SDA0549881R1 31 Nm	185 - 240 mm <sup>2</sup> 1SDA055020R1 43 Nm	- - -	- -	- -
Al cable - Stranded Clamp type Tightening torque	2 x mm <sup>2</sup> - - -	- - -	- - -	120 - 240 mm <sup>2</sup> 1SDA023380R0001 31 Nm	- - -	- -
Lugs	Width ≤ Diameter = Tightening torque	- - - 8 mm (.315 in) 18 Nm / 160 lb.in	24 mm (.945 in) 10 mm (.394 in) 28 Nm / 248 lb.in	32 mm (1.260 in) 10 mm (.394 in) 35 Nm / 310 lb.in	47 mm (1.850 in) 10 mm (.394 in) 35 Nm / 398 lb.in	50 mm (1.969 in) 12 mm (.472 in) 45 Nm / 398 lb.in
Connection capacity acc to UL / CSA 1 x AWG / kcmil	6 - 2/0 Clamp type Tightening torque	6 - 300 kcmil Included 8 Nm / 71 lb. in.	4 - 400 kcmil ATK185 34 Nm / 300 lb.in.	- ATK300 42 Nm / 375 lb. in.	- - -	- -
Connection capacity acc to UL / CSA 2 x AWG / kcmil	- Clamp type Tightening torque	- - -	4 - 500 kcmil ATK300/2 <sup>2)</sup> 42 Nm / 375 lb. in.	2/0 - 500 kcmil ATK580/2 375 lb. in.	2/0 - 500 kcmil ATK580/2 375 lb. in.	- -
Connection capacity acc to UL / CSA 3 x AWG / kcmil	- Clamp type Tightening torque	- - -	- - -	2/0 - 500 kcmil ATK750/3 42 Nm / 375 lb.in	2/0 - 500 kcmil ATK750/3 42 Nm / 375 lb.in	- -
Connection capacity acc to UL / CSA 4 x AWG / kcmil	- Clamp type Tightening torque	- - -	- - -	- - -	- - -	4/0 - 500 kcmil ATK1650/4 <sup>3)</sup> 42 Nm / 375 lb. in.

<sup>1)</sup> Terminal shrouds 1SFN125406R1000 must be used.  
<sup>2)</sup> Terminal shrouds 1SFN125406R1000 can be used.

<sup>3)</sup> Use a wall between ATK1350/5

# PSTX - The advanced range

## Anybus



**Profibus  
Modbus-RTU**

1SFC1321200001



**DeviceNet**

1SFC1321210001



**EtherNet/IP (1-port)  
Modbus/TCP (1-port)**

1SFC1321180001



**EtherNet/IP (2-port)  
Modbus/TCP (2-port)  
Profinet (2-port)**

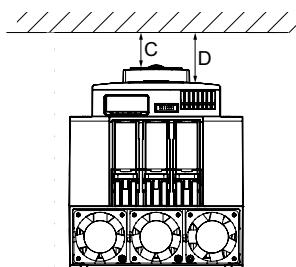
1SFC1321190001

For communication protocol	Type	Order code	Pkg qty	Weight kg (1 pce)	Weight (lb) (1 pce)
Profibus	AB-PFIBUS-1	1SFA899300R1001	1	0.042	(0.093)
DeviceNet	AB-DEVICENET-1	1SFA899300R1002	1	0.042	(0.093)
Modbus-RTU	AB-MODBUS-RTU-1	1SFA899300R1003	1	0.042	(0.093)
EtherNet/IP (1-port)	AB-ETHERNET-IP-1	1SFA899300R1005	1	0.042	(0.093)
EtherNet/IP (2-port)	AB-ETHERNET-IP-2	1SFA899300R1006	1	0.042	(0.093)
Modbus/TCP (1-port)	AB-MODBUS-TCP-1	1SFA899300R1007	1	0.042	(0.093)
Modbus/TCP (2-port)	AB-MODBUS-TCP-2	1SFA899300R1008	1	0.042	(0.093)
Profinet (2-port)	AB-PROFINET-2	1SFA899300R1010	1	0.042	(0.093)

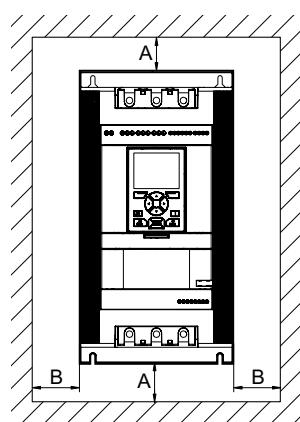
# PSTX - The advanced range

## Wall mounting instructions

**Minimum distance to front**



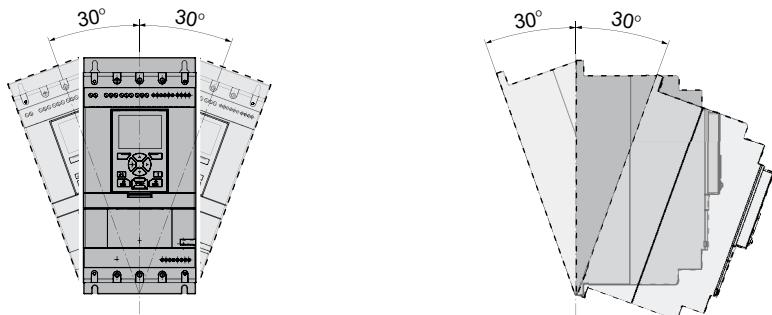
**Minimum distance to wall**



**Dimensions mm (in)**

Softstarter, type	A	B	C	D
<b>PSTX</b>				
PSTX30 ... PSTX105	100 (3.94)	10 (0.39)	20 (0.79)	35 (1.38)
PSTX142 ... PSTX170	100 (3.94)	10 (0.39)	20 (0.79)	35 (1.38)
PSTX210 ... PSTX370	100 (3.94)	10 (0.39)	20 (0.79)	35 (1.38)
PSTX470 ... PSTX570	150 (5.91)	15 (0.59)	20 (0.79)	35 (1.38)
PSTX720 ... PSTX840	150 (5.91)	15 (0.59)	20 (0.79)	35 (1.38)
PSTX1050 ... PSTX1250	150 (5.91)	15 (0.59)	20 (0.79)	35 (1.38)

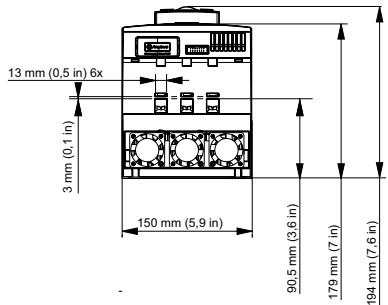
**Maximum mounting angle**



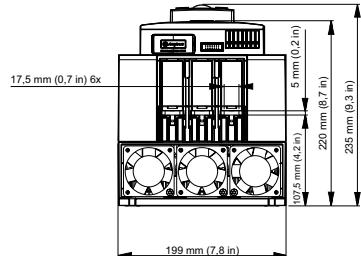
# PSTX - The advanced range

## Dimensions

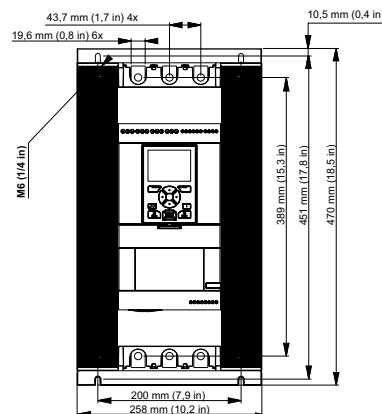
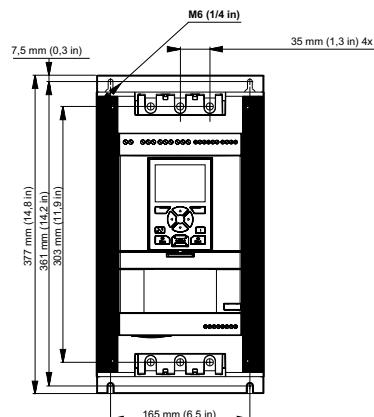
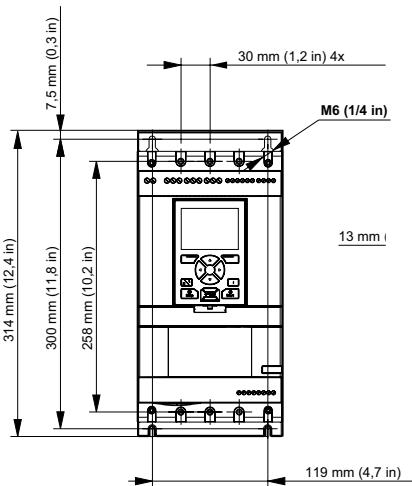
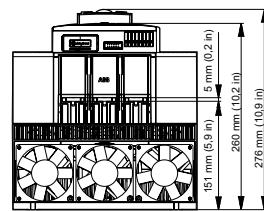
PSTX30 ... PSTX105



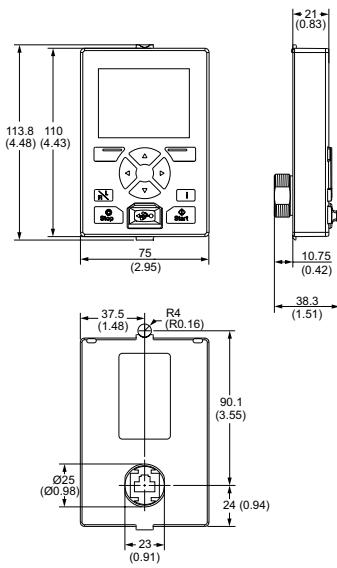
PSTX142 ... PSTX170



PSTX210 ... PSTX370



PSTX detachable keypad

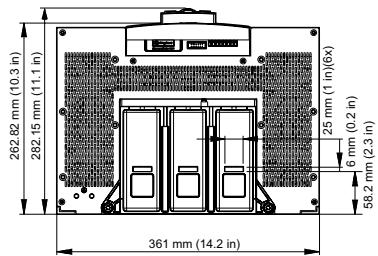


Dimensions in mm (in)

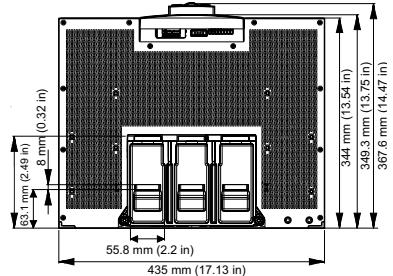
# PSTX - The advanced range

## Dimensions

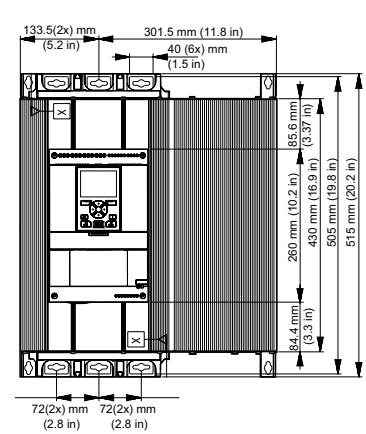
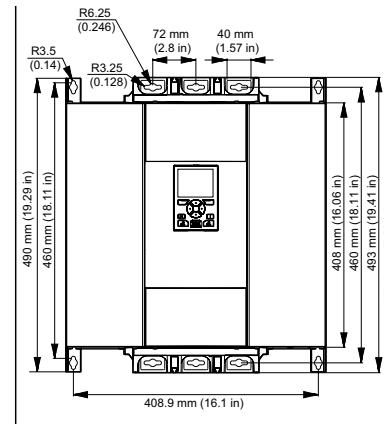
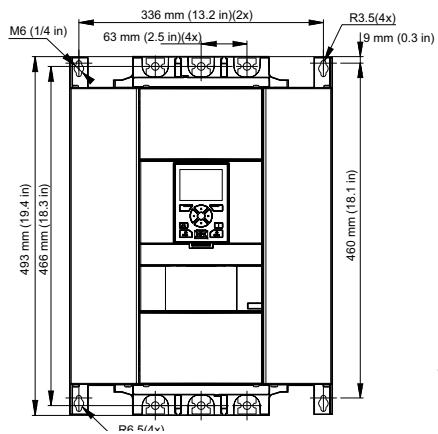
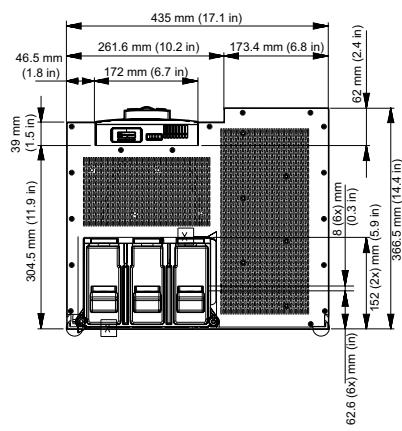
**PSTX470 ... PSTX570**



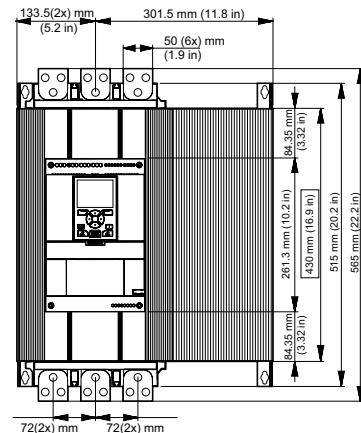
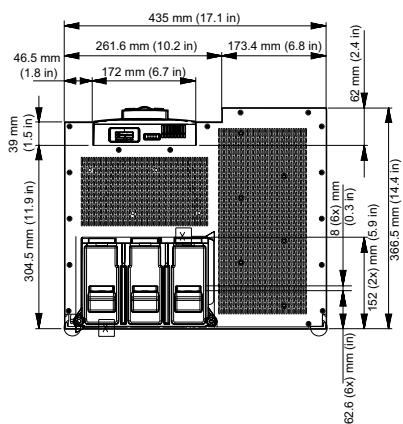
**PSTX720 ... PSTX840**



**PSTX1050**



**PSTX1250**



Dimensions in mm (in)

# PSTX - The advanced range

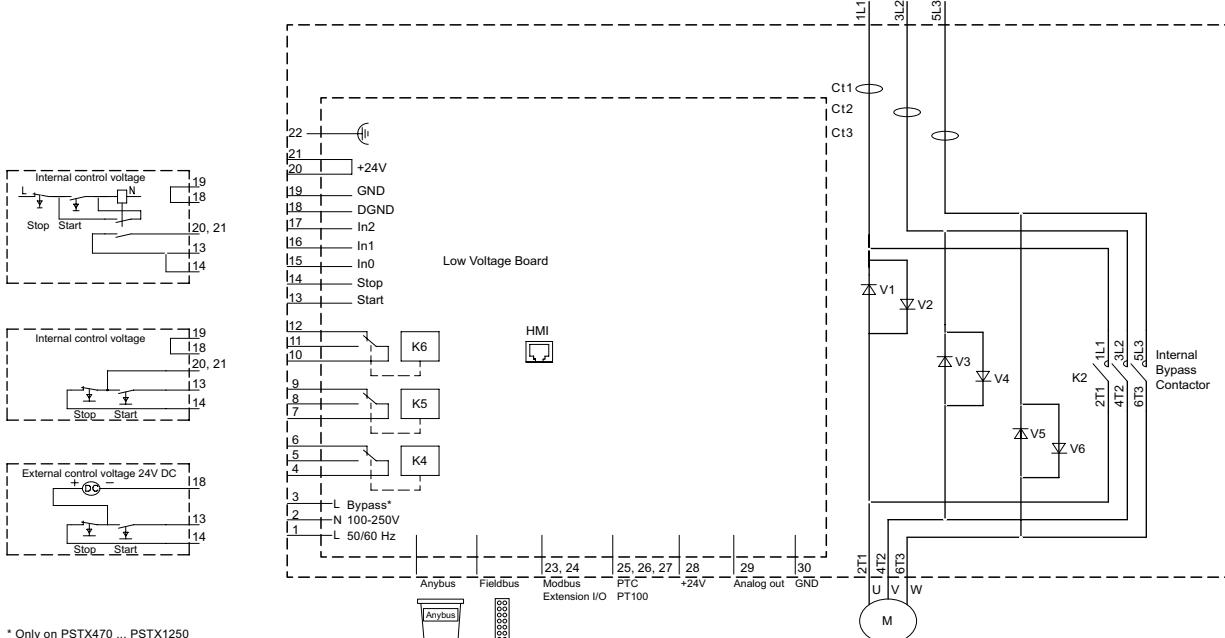
## Circuit diagrams



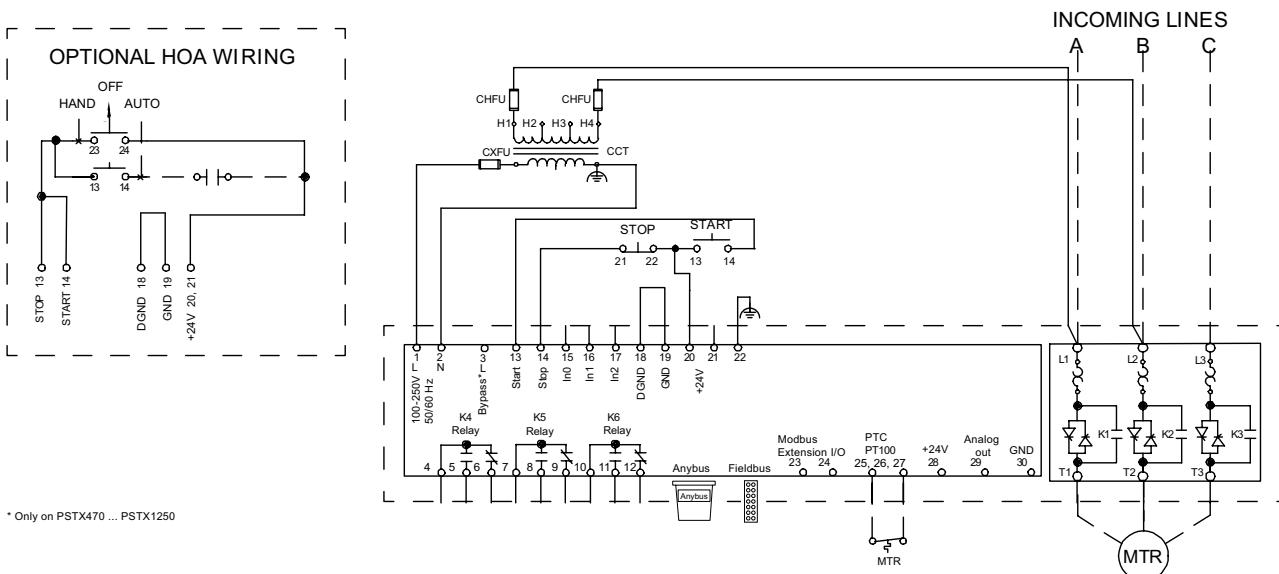
### CAUTION

Terminal 22 is a function earth, it is not a protective earth. It shall be connected to the mounting plate.

### PSTX30 ... PSTX1250 (IEC circuit diagram)



### PSTX30 ... PSTX1250 (UL circuit diagram)



For more circuit diagrams see [new.abb.com/low-voltage/products/softstarters](http://new.abb.com/low-voltage/products/softstarters)

# PSTX - The advanced range

## Certifications and approvals

The table below shows the certifications and approvals for PSTX softstarters.

For other certifications and/or approvals, please contact ABB.

### Certifications and approvals

Abbreviation approved in	Certifications						Approval: ship classification societies				
	CE EU	cULus Canada USA	CCC China	EAC Russia	ANCE Mexico	C-tick Australia	ABS	GL	Lloyd's Register	DNV	CCS
PSTX30 ... PSTX370	•	•	•	•	•	•	•	•	•	•	Pending
PSTX470 ... PSTX570	•	•	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
PSTX720 ... PSTX1250	Contact ABB for more information										

- Standard design approved, the products bear the certification mark when it is required.

### Directives and standards

No. 2006/95/EC	Low voltage equipment
No. 2004/108/EC	Electromagnetic compatibility
EN 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General rules
EN 60947-4-2	AC semiconductor motor controllers and starters
UL 508	Industrial Control Equipment
CSA C22.2 No 14	Industrial Control Equipment

**Online softstarter selection**  
[www.abbcontrol.fr/softstarter](http://www.abbcontrol.fr/softstarter)



To select the right softstarter, install a QR code reader on your mobile device, scan the code and find ABB's softstarter selection tool.

# Contact us

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**Low Voltage Products**  
SE-721 61 VÄSTERÅS, Sweden

[www.abb.com/lowvoltage](http://www.abb.com/lowvoltage)  
[www.abb.com/connecttocontrol](http://www.abb.com/connecttocontrol)

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