

Technical data

PST30 – 300

PSTB370 – 1050

Softstarters
Type PST

	PST30 – 300	PSTB370 – 1050		PST30 – 300	PSTB370 – 1050	
Rated insulation voltage U_i	690 V	690 V	Control circuit /Hardware inputs Internal 24 V DC (10 mA closed) Start / Stop inputs Two extra programmable inputs (Each input can be programmed to be None, Reset, Enable, Jog, DOL or Start motor 2 (or 3)).	Yes	Yes	
Rated operational voltage U_e	208 – 690 V	208 – 690 V		Yes	Yes	
Starting capacity at max rated current I_r	500% for 30 sec	500% for 30 sec		Yes	Yes	
Number of starts per hour	30 ①	10 ①		Yes	Yes	
Overload capability Overload Class	10 – 30	10 – 30		Yes	Yes	
Service factor	115 %	115 % (PSTB370 – PSTB840) 100 % (PSTB1050)		Signal indication LED's Run power on – Green Fault - Red Protection - Yellow	Yes Yes Yes	Yes Yes Yes
Ambient temperature During operation During storage Altitudes Maximum altitude	$\pm 0 \dots +50$ °C ② -25... +70 °C 4000 m ③	$\pm 0 \dots +50$ °C ② -25... +70 °C 4000 m ③		Protections Electronic overload Adjustable tripping classes - Class 10 A, 10, 20 and 30 Dual ramp (separate overload function for start and run) PTC connection Locked rotor protection Underload protection Phase imbalance High current ($8 \times I_e$) Phase reversal protection	Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes
Degree of protection Main circuit Supply and Control circuit	IP10 (PST30 ... 72) IP00 (PST85 ... 300) IP20	IP00 (all) IP20		Warnings (pre-warning) High current Low current (underload) Overload trip Overtemp. thyristors (SCR)	Yes Yes Yes Yes	Yes Yes Yes Yes
Main circuit Built in By-pass contactor Cooling system - Fan cooled (thermostat controlled)	No Yes	Yes Yes		Start of several motors Possible to set up and start three different motors	Yes	Yes
Supply circuit Control voltage – one range	100 ... 250 V, 50/60 Hz +10 %/-15 %	100 ... 250 V 50/60 Hz +10 %/-15 %		Field bus connection Connection for ABB FielBusPlug AS-I (option cable) DeviceNet (option cable) Profibus DP (option cable)	Yes Yes Yes Yes	Yes Yes Yes Yes
HMI for settings (Human Machine Interface) 20 segment display Keypad with two selection keys and two navigating keys Plain text in 10 languages (English, German, Italian, Chinese, Finnish, Swedish, French, Spanish, Dutch and Portuguese)	Yes Yes Yes	Yes Yes Yes	Signal relays Number of programmable signal relays (Each relay can be programmed to be Run, By-pass or Event signal) K4 – Default as Run signal K5 – Default as By-pass signal K6 – Default as Event signal Rated operational voltage U_e Rated thermal current I_{th} Rated operational current I_e at AC-15 ($U_e = 250$ V)	3 Yes Yes Yes 250 V 5 A 1.5 A	3 Yes Yes Yes 250 V 5 A 1.5 A	

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PSTB Integrated bypass ratings

	PSTB370	PSTB470	PSTB570	PSTB720	PSTB840	PSTB1050
Contactor type	AF260	AF300	AF400	AF580	AF750	AF750
AC3 Rating @ 480V HP	200	250	350	500	600	600
AC3 Rating A	248	302	414	590	720	720

① Valid for 50 % on time and 50 % off time, with $3.5 \times I_e$ for 7 seconds. If other data is required, please contact your sales office

② Above 40 °C up to max. 50 °C reduce the rated current by 0.8 % per °C.

③ When used at high altitudes above 1000 meters, consult factory.