

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB PSTX170-600-70 1SFA898111R7000

Softstarter Selection and Commissioning Guide

ABB PSTX Advanced Three-Phase Motor Softstarter

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB PSTX170-600-70 1SFA898111R7000
Reference number	PSTX170-600-70
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/1sfa898111r7000-pstx170-600-70>

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Motor-starting and control path

ABB PSTX170-600-70, order code 1SFA898111R7000, is an advanced three-phase motor softstarter with integrated control, protection, monitoring and bypass functions. It controls motor acceleration and deceleration with voltage or torque ramps and current limiting, then closes its built-in bypass contactor at full speed to reduce heat and power loss.

01	Measured Or Derived Values: Motor current; Main voltage; Motor voltage; Main frequency; Active and reactive power; Active and reactive energy; Power factor; Motor and thyristor temperature; Optional PT-I00...
02	Control Inputs: Start, stop, and three programmable digital inputs for functions documented by ABB, including reset, enable, jog, heating, braking, reversing logic, emergency mode and remote-control selection.
03	Outputs: Three programmable signal relays and one configurable analog output; fieldbus data is available through the documented communication interfaces.
04	Motor Control: Voltage-ramp or torque-ramp soft start/stop, current limiting, kick start, jog, dynamic braking, standstill brake and related application functions.

Motor, supply, and control boundaries

01	Verification Status: VERIFIED_EXACT_MODEL_AND_ORDER_CODE_FROM_ABB
02	Exact Mapping: ABB maps order code 1SFA898111R7000 to model PSTX170-600-70.
03	Lifecycle Status: The exact order code has a current ABB product-detail URL and the PSTX family is present in current ABB catalogs. ABB does not state a model-specific lifecycle phase in the cited...

Softstarter commissioning checks

01	Installation, commissioning and service must follow the current ABB PSTX manual and be carried out by personnel qualified for the connected power system.
02	Verify the exact 600 V order code, motor nameplate current, system voltage, in-line or inside-delta wiring, duty class, starts per hour and load inertia before selection.
03	For heavy-duty or complex starts, high starting-current limits, long acceleration times or more frequent starts, use ABB's selection method or proSoft rather than copying a catalog power value.
04	Derate rated current by 0.8% per deg C above 40 deg C up to 60 deg C, and apply ABB's altitude derating above 1000 m up to 4000 m.
05	For the PSTX142...170 frame, ABB lists a 508 x 508 x 305 mm minimum IEC enclosure size; maintain the required clearances and cooling airflow.
06	Keep liquids, drilling swarf, dust and conductive parts out of the softstarter and keep the mounting angle within the ABB limit of 30 degrees.

Identity and release controls

Verification Status	VERIFIED_EXACT_MODEL_AND_ORDER_CODE_FROM_ABB
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Official ABB sources

ABB product details - PSTX170-600-70	https://new.abb.com/products/ISFA898111R7000/pstx170-600-70
Softstarters Type PSTX30...PSTX1250 Installation and commissioning manual	https://library.e.abb.com/public/a5d884377e924e4b92e2f7093084a3ea/ISFC13208IM0201_Rev_P.pdf
PSTX softstarter - The advanced range fact sheet	https://library.e.abb.com/public/ccc64fc56a934fdaa28e902df9c40fe3/PSTX_factsheet_ISFC132033L0201_revA.pdf
Softstarters PSR, PSRC, PSE and PSTX catalog	https://library.e.abb.com/public/79b4636491024f61a7945a3dbb28e256/SoftstarterCatalog_ISFC132012C0201_revJ.pdf