

PRODUCT-DETAILS

# PSTX1050-600-70

## PSTX1050-600-70 Softstarter



### General Information

Global Commercial Alias	PSTX1050-600-70
Extended Product Type	PSTX1050-600-70
Product ID	1SFA898120R7000
ABB Type Designation	PSTX1050-600-70
EAN	7320500510445
Catalog Description	PSTX1050-600-70 Softstarter

### Long Description

The softstarter PSTX1050-600-70 has a rated maximum operational current of 1050 A with an operating voltage span from 208...600 V AC. The rated control voltage is between 100...250 V AC at 50/60 Hz. PSTX features a three-phase control soft start and stop through a voltage or a torque ramp. It has a built-in bypass for easy installation and energy saving. A RUN, TOR and Event signal is available from relay outputs in NO (normally open state). The PSTX has functions such as current limit, kickstart, analog output, EOL, motor heating and pump cleaning etc. To interact with PSTX, it has a detachable full graphic display with IP66 and 4x outdoor rating. There are four ways to communicate with PSTX. It can be done by hardwire inputs Start/Stop/Reset of fault, and by three programmable digital inputs. Another popular option is the built-in Fieldbus communication Modbus RTU and incl optional ANYBUS modules with every major protocol such as for example Profinet, Profibus, Modbus TCP, Ethernet IP and others. Another way to communicate with PSTX is to use an external adaptor and a Fieldbus plug. PSTX is the complete alternative for any motor starting application. It's suitable for medium to large-sized three-phase motors with nominal currents from 30...1250 A inline connection or 52...2160 A inside delta connection. Typical applications are, for example, pumps, fans, compressors, and conveyors.

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85044090

## Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
Instructions and Manuals	1SFC132081M0201

## Dimensions

Product Net Width	435 mm
Product Net Height	515 mm
Product Net Depth / Length	367 mm
Product Net Weight	62.3 kg

## Technical

Rated Operational Voltage	208 ... 600 V AC
Rated Control Supply Voltage (U <sub>s</sub> )	100 ... 250 V AC
Rated Control Circuit Voltage (U <sub>c</sub> )	DC Operation 24 V
Rated Frequency (f)	50/60 Hz Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection (P <sub>e</sub> )	(230 V) 315 kW (400 V) 560 kW (500 V) 730 kW
Rated Operational Current - In-Line Connection (I <sub>e</sub> )	1050 A
Rated Operational Power - Inside Delta Connection	at 230 V 500 kW at 400 V 1000 kW at 500 V 1250 kW
Rated Operational Current - Inside Delta Connection	1810 A
Service Factor Percentage	100 %
Overload Protection	Built-in electronic overload protection
Integrated Electronic Overload	Yes
Adjustable Rated Motor Current I <sub>e</sub>	30 ... 100 %
Starting Capacity at Maximum Rated Current I <sub>e</sub>	4xI <sub>e</sub> for 10s
Ramp Time	1 ... 120 second [unit of time]
Initial Voltage During Start	10 ... 99 %
Step Down Voltage Special Ramp	100 ... 10 %
Current Limit Function	1.5 ... 7.5 xI <sub>e</sub>
Switch for Inside Delta Connection	Yes
Run Signal Relay	Yes
By-pass Signal Relay	Yes
Fault Signal Relay	Yes
Overload Signal Relay	Yes
Analog Outputs	0...10 V, 0...20 mA, 4...20 mA
Signal indication ready to start/standby ON (LED)	Green
Signal indication running R (LED)	Green

Signal indication protection (LED)	Yellow
Signal indication fault (LED)	Red
Communication	Built in Modbus interface, Anybus, FieldBusPlug (with adapter).
Degree of Protection	IP00
Terminal Type	Main Circuit: Bars
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm <sup>2</sup>
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm <sup>2</sup>
Tightening Torque	Main Circuit 45 N·m
Product Main Type	PSTX1050

### Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Ampere Rating UL/CSA	1062 A
Tightening Torque UL/CSA	Main Circuit 398.3

### Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Storage -40 ... +70 °C
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

### Certificates and Declarations (Document Number)

CQC Certificate	CN: CQC2015010304830298 / SE: CQC2015010304830294
Declaration of Conformity - CCC	CN: 2020980304001097 / SE: 2020980304001508
Declaration of Conformity - CE	2CMT005209
Environmental Information	2CMT005232
Instructions and Manuals	1SFC132081M0201
RoHS Information	2CMT005210

### Container Information

Package Level 1 Width	600 mm
Package Level 1 Depth / Length	616 mm
Package Level 1 Height	800 mm
Package Level 1 Gross Weight	74.3 kg
Package Level 1 EAN	7320500510445
Package Level 1 Units	box 1 piece

### Classifications

Object Classification Code	Q
ETIM 4	EC002572 - Electronic motor control and protection device
ETIM 5	EC002572 - Electronic motor control and protection device

ETIM 6

EC002572 - Motor management device

eClass

V11.0 : 27370907

UNSPSC

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## Categories

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Drives → Softstarters → Softstarters → PSTX Softstarters → PSTX1050

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSTX Softstarters → PSTX1050

