

PRODUCT-DETAILS

# PSTX142-600-70

## PSTX142-600-70 Softstarter



Submitted by TECO Group

### General Information

Global Commercial Alias	PSTX142-600-70
Extended Product Type	PSTX142-600-70
Product ID	1SFA898110R7000
ABB Type Designation	PSTX142-600-70
EAN	7320500501467
Catalog Description	PSTX142-600-70 Softstarter

### Long Description

The softstarter PSTX142-600-70 has a rated maximum operational current of 142 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	199 mm
Product Net Height	377 mm
Product Net Depth / Length	283 mm
Product Net Weight	7 kg

## Technical

Rated Operational Voltage	208 ... 600 V AC
Rated Control Supply Voltage ( $U_s$ )	100 ... 250 V AC
Rated Control Circuit Voltage ( $U_c$ )	DC Operation 24 V
Rated Frequency (f)	50/60 Hz Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection ( $P_e$ )	(230 V) 37 kW (400 V) 75 kW (500 V) 90 kW
Rated Operational Current - In-Line Connection ( $I_e$ )	142 A
Rated Operational Power - Inside Delta Connection	at 230 V 75 kW at 400 V 132 kW at 500 V 160 kW
Rated Operational Current - Inside Delta Connection	245 A
Service Factor Percentage	100 %
Overload Protection	Built-in electronic overload protection
Integrated Electronic Overload	Yes
Adjustable Rated Motor Current $I_e$	30 ... 100 %
Starting Capacity at Maximum Rated Current $I_e$	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 Main Circuit	Hole Diameter 8.5 mm
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 14 N·m
Product Main Type	PSTX142

### Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Ampere Rating UL/CSA	130 A
Tightening Torque UL/CSA	Main Circuit 123.9

### 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: CQC2014010304744407 / SE: CQC2014010304724379
Declaration of Conformity - CCC	CN: 2020980304001092 / SE: 2020980304001485
Declaration of Conformity - CE	2CMT005209
Environmental Information	2CMT005232
Instructions and Manuals	1SFC132081M0201
RoHS Information	2CMT005210

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## Container Information

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Package Level 1 Width	263 mm
Package Level 1 Depth / Length	323 mm
Package Level 1 Height	454 mm
Package Level 1 Gross Weight	8.7 kg
Package Level 1 EAN	7320500501467
Package Level 1 Units	box 1 piece

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## Classifications

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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
UNSPSC	39121521

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## Categories

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Drives → Softstarters → Softstarters → PSTX Softstarters → PSTX142

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSTX Softstarters → PSTX142

