

PRODUCT-DETAILS

# PSTX210-600-70

## PSTX210-600-70 Softstarter



Submitted by TECO Group

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### General Information

|                         |                            |
|-------------------------|----------------------------|
| Global Commercial Alias | PSTX210-600-70             |
| Extended Product Type   | PSTX210-600-70             |
| Product ID              | 1SFA898112R7000            |
| ABB Type Designation    | PSTX210-600-70             |
| EAN                     | 7320500501504              |
| Catalog Description     | PSTX210-600-70 Softstarter |

### Long Description

The softstarter PSTX210-600-70 has a rated maximum operational current of 210 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.

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### Ordering

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|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85044090 |

## Popular Downloads

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

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 258 mm  |
| Product Net Height         | 470 mm  |
| Product Net Depth / Length | 279 mm  |
| Product Net Weight         | 13.3 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<br>Main Circuit 50 / 60 Hz                   |
| Rated Operational Power - In-Line Connection ( $P_e$ )   | (230 V) 59 kW<br>(400 V) 110 kW<br>(500 V) 132 kW     |
| Rated Operational Current - In-Line Connection ( $I_e$ ) | 210 A   |
| Rated Operational Power - Inside Delta Connection        | at 230 V 102 kW<br>at 400 V 184 kW<br>at 500 V 250 kW |
| Rated Operational Current - Inside Delta Connection      | 360 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 10.2 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 25 N·m   |
| Product Main Type                                 | PSTX210   |

### Technical UL/CSA

|                                  |                    |
|----------------------------------|--------------------|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| Ampere Rating UL/CSA             | 192 A              |
| Tightening Torque UL/CSA         | Main Circuit 221.3 |

### Environmental

|                         |   |
|-------------------------|---|
| Ambient Air Temperature | Operation -25 ... +60 °C<br>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: CQC2014010304744408 / SE: CQC2014010304724384 |
| Declaration of Conformity - CCC | CN: 2020980304001093 / SE: 2020980304001490       |
| 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          | 352 mm        |
| Package Level 1 Depth / Length | 379 mm        |
| Package Level 1 Height         | 564 mm        |
| Package Level 1 Gross Weight   | 16.3 kg       |
| Package Level 1 EAN            | 7320500501504 |
| 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 → PSTX210

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSTX Softstarters → PSTX210

