

## PRODUCT-DETAILS

# PSTX170-690-70

## PSTX170-690-70 Softstarter



### General Information

|                         |                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------|
| Global Commercial Alias | PSTX170-690-70                                                                                      |
| Extended Product Type   | PSTX170-690-70                                                                                      |
| Product ID              | 1SFA898211R7000                                                                                     |
| ABB Type Designation    | PSTX170-690-70                                                                                      |
| EAN                     | 7320500501443                                                                                       |
| Catalog Description     | PSTX170-690-70 Softstarter                                                                          |
| Long Description        | Softstarter PSTX170-690-70 for max 690V main voltage and 100 - 250V 50/60Hz control supply voltage. |

### Ordering

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

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SFC132009C0201 |
| Instructions and Manuals          | 1SFC132081M0201 |

## Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 199 mm |
| Product Net Height         | 377 mm |
| Product Net Depth / Length | 283 mm |
| Product Net Weight         | 8.9 kg |

## Technical

|                                                          |                                                                         |
|----------------------------------------------------------|-------------------------------------------------------------------------|
| Rated Operational Voltage                                | 208 ... 690 V AC                                                        |
| Rated Control Supply Voltage ( $U_g$ )                   | 100 ... 250 V AC                                                        |
| Rated Control Circuit Voltage ( $U_c$ )                  | DC Operation 24 V                                                       |
| Rated Frequency (f)                                      | Main Circuit 50/60 Hz                                                   |
| Rated Operational Power - In-Line Connection ( $P_e$ )   | (230 V) 45 kW<br>(400 V) 90 kW<br>(500 V) 110 kW<br>(690 V) 160 kW      |
| Rated Operational Current - In-Line Connection ( $I_e$ ) | 170 A                                                                   |
| Rated Operational Power - Inside Delta Connection        | at 230 V 90 kW<br>at 400 V 160 kW<br>at 500 V 200 kW<br>at 690 V 257 kW |
| Rated Operational Current - Inside Delta Connection      | 300 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 $I_e$         | 4x $I_e$ 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 x $I_e$                                                     |
| 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 MMT mm²                                       |
| Connecting Capacity Control Circuit | Rigid 1 x 2.5 mm²                                               |
| Connecting Capacity Supply Circuit  | Rigid 1 x 2.5 mm²                                               |
| Tightening Torque                   | Main Circuit 14 N·m                                             |
| Product Main Type                   | PSTX170                                                         |

## 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: 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                                        |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 263 mm        |
| Package Level 1 Depth / Length | 323 mm        |
| Package Level 1 Height         | 454 mm        |
| Package Level 1 Gross Weight   | 10.4 kg       |
| Package Level 1 EAN            | 7320500501443 |
| 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                        |

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Categories

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Drives → Softstarters → Softstarters → PSTX Softstarters → PSTX170

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSTX Softstarters → PSTX170

