

# PSTX85-690-70



## PSTX85-690-70 Softstarter

### General Information

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Global Commercial Alias | PSTX85-690-70                                                                                      |
| Extended Product Type   | PSTX85-690-70                                                                                      |
| Product ID              | 1SFA898208R7000                                                                                    |
| ABB Type Designation    | PSTX85-690-70                                                                                      |
| EAN                     | 7320500501351                                                                                      |
| Catalog Description     | PSTX85-690-70 Softstarter                                                                          |
| Long Description        | Softstarter PSTX85-690-70 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          | 150.000 mm |
| Product Net Height         | 314.000 mm |
| Product Net Depth / Length | 194.000 mm |
| Product Net Weight         | 6.10 kg    |

### Technical

|                                                          |                               |
|----------------------------------------------------------|-------------------------------|
| Rated Operational Voltage                                | Main Circuit 208 ... 690 V AC |
| Rated Control Supply Voltage ( $U_s$ )                   | 100 ... 250 V                 |
| Rated Control Circuit Voltage ( $U_c$ )                  | DC Operation 24 V             |
| Rated Frequency (f)                                      | Main Circuit 50/60 Hz         |
| Rated Operational Power - In-Line Connection ( $P_e$ )   | (400 V) 45 kW                 |
| Rated Operational Current - In-Line Connection ( $I_e$ ) | 85 A                          |
| Rated Operational Power - Inside Delta Connection        | at 400 V 75 kW                |
| Rated Operational Current - Inside Delta Connection      | 147 A                         |

|                                                           |                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------|
| Service Factor Percentage                                 | 100 %                                                           |
| Overload Protection                                       | Build-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). |
| Terminal Type                                             | Cable Clamp                                                     |
| Connecting Capacity Main Circuit                          | Hole Diameter 8.5 mm                                            |
| Connecting Capacity Control Circuit                       | Rigid 1x2.5 mm <sup>2</sup>                                     |
| Connecting Capacity Supply Circuit                        | Rigid 1x2.5 mm <sup>2</sup>                                     |
| Tightening Torque                                         | Main Circuit 8 N·m                                              |
| Product Main Type                                         | PSTX85                                                          |

## Environmental

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

## Certificates and Declarations (Document Number)

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CMT005209      |
| Environmental Information      | 2CMT005232      |
| Instructions and Manuals       | 1SFC132081M0201 |
| RoHS Information               | 2CMT005210      |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 230 mm        |
| Package Level 1 Depth / Length | 395 mm        |
| Package Level 1 Height         | 280 mm        |
| Package Level 1 Gross Weight   | 6.70 kg       |
| Package Level 1 EAN            | 7320500501351 |
| Package Level 1 Units          | 1 piece       |

Classifications

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| Object Classification Code | Q                                                         |
| E-nummer                   | 3302091                                                   |
| ETIM 4                     | EC002572 - Electronic motor control and protection device |
| ETIM 5                     | EC002572 - Electronic motor control and protection device |

Categories

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

