

## PRODUCT-DETAILS

# PSE142-600-70

## PSE142-600-70 Softstarter



### General Information

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Global Commercial Alias | PSE142-600-70                                                                                      |
| Extended Product Type   | PSE142-600-70                                                                                      |
| Product ID              | 1SFA897110R7000                                                                                    |
| ABB Type Designation    | PSE142-600-70                                                                                      |
| EAN                     | 7320500400685                                                                                      |
| Catalog Description     | PSE142-600-70 Softstarter                                                                          |
| Long Description        | Softstarter PSE142-600-70 for max 600V 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 | 1SFC132005C0201 |
| Instructions and Manuals          | 1SFC132057M0201 |

## Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 130 mm |
| Product Net Height         | 295 mm |
| Product Net Depth / Length | 220 mm |
| Product Net Weight         | 4.4 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) 40 kW<br>(400 V) 75 kW<br>(500 V) 90 kW                  |
| Rated Operational Current - In-Line Connection ( $I_e$ ) | 143 A                                                            |
| Service Factor Percentage                                | 100 %                                                            |
| Overload Protection                                      | Build-in electronic overload protection                          |
| Integrated Electronic Overload                           | Yes                                                              |
| Adjustable Rated Motor Current $I_e$                     | 30 ... 100 %                                                     |
| Starting Capacity at Maximum Rated Current $I_e$         | 4xle for 10s                                                     |
| Ramp Time                                                | 0 ... 30 second [unit of time]<br>1 ... 30 second [unit of time] |
| Initial Voltage During Start                             | 30 ... 70 %                                                      |
| Step Down Voltage Special Ramp                           | No %                                                             |
| Current Limit Function                                   | 1.5 ... 7xle                                                     |
| Switch for Inside Delta Connection                       | No                                                               |
| Run Signal Relay                                         | Yes                                                              |
| By-pass Signal Relay                                     | Yes                                                              |
| Fault Signal Relay                                       | Yes                                                              |
| Overload Signal Relay                                    | Yes                                                              |
| Analog Outputs                                           | 4...20 mA                                                        |
| Signal indication completed start ramp (LED)             | Green                                                            |
| Signal indication ready to start/standby ON (LED)        | Green                                                            |
| Signal indication running R (LED)                        | Green                                                            |
| Signal indication ramping up/down (LED)                  | Green                                                            |

|                                                                            |                                                                          |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Signal indication protection (LED)                                         | Yellow                                                                   |
| Signal indication fault (LED)                                              | Red                                                                      |
| Number of Starts Per Hour at 3.5*Ie for 7 sec.<br>50% ON Time 50% OFF Time | 10                                                                       |
| Communication                                                              | FiledBusPlug(Optional)                                                   |
| Degree of Protection                                                       | IP00                                                                     |
| Terminal Type                                                              | Main Circuit: Bars                                                       |
| Connecting Capacity Main Circuit                                           | Hole Diameter 8.5 MMT mm²<br>Width and Thickness 17.5x5 MMT              |
| Connecting Capacity Control Circuit                                        | Rigid 1 x 2.5 mm²<br>Rigid 2 x 1.5 mm²                                   |
| Connecting Capacity Supply Circuit                                         | Rigid 1 x 2.5 mm²                                                        |
| Tightening Torque                                                          | Control Circuit 0.5 N·m<br>Main Circuit 18 N·m<br>Supply Circuit 0.5 N·m |
| Product Main Type                                                          | PSE142                                                                   |

## 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                 | CQC2011010304468089 |
| Declaration of Conformity - CCC | 2020980304001545    |
| Declaration of Conformity - CE  | 2CMT003496          |
| Environmental Information       | 1SFC132042D0201     |
| Instructions and Manuals        | 1SFC132057M0201     |
| RoHS Information                | 1SFC132043D0201     |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 203 mm        |
| Package Level 1 Depth / Length | 282 mm        |
| Package Level 1 Height         | 363 mm        |
| Package Level 1 Gross Weight   | 5.4 kg        |
| Package Level 1 EAN            | 7320500400685 |
| 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                        |          |
| UNSPSC                     |                                                           | 39121521 |

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## Categories

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Drives → Softstarters → Softstarters → PSE Softstarters → PSE142

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSE Softstarters → PSE142

