

PRODUCT-DETAILS

## PSE18-600-70 PSE18-600-70 Softstarter - 18 A - 208 ... 600 V AC



## General Information

| PSE18-600-70  |
|---|
| PSE18-600-70  |
| 1SFA897101R7000   |
| PSE18-600-70  |
| 7320500400593   |
| PSE18-600-70 Softstarter - 18 A - 208 600 V AC  |
| The softstarter PSE18-600-70 has a rated maximum operational current of 18 A with an operating voltage span from 208600 V AC. The rated control voltage is between 100250 V AC at 50/60 Hz. PSE features a two-phase control with a soft start and stop through a voltage or a torque ramp. It has built-in bypass for easy installation and energy saving. A RUN, TOR, and Event signal is available from a relay output in NO (normally open state). The PSE has functions such as current limit, kickstart, analog output, EOL, underload, and locked rotor protection. To interact with PSE, it has an Illuminated display that uses symbols to become language neutral. As an option, you can add an identical external keypad with a rating of IP66. There are three ways to communicate with PSE. It can be done by hardwire inputs Start/Stop or by Reset of fault. Another popular option is the built-in fieldbus |
|   |

communication Modbus RTU. You can also use an external adaptor and a Fieldbus plug. PSE is a true general pur-pose softstarter. It's a perfect balance be-tween high starting capacity and cost effi-ciency. Very suitable for small to medium-sized three-phase motors with nominal currents from 18...370 A. Typical applications are, for example, pumps, fans, compressors, and conveyors.

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| Minimum Order Quantity               | 1 piec         |
|--------------------------------------|----------------|
| Customs Tariff Number                | 8537109        |
| Popular Downloads                    |                |
| Data Sheet, Technical<br>Information | 1SFC132012C020 |
| Instructions and Manuals             | 1SFC132057M020 |
| CAD Dimensional<br>Drawing           | 2CDC001079B020 |
|                                      | N/J            |

| Product Net Width             | 90 mm  |
|-------------------------------|--------|
| Product Net Height            | 245 mm |
| Product Net Depth /<br>Length | 184 mm |
| Product Net Weight            | 2.5 kg |

| Technical  |  |
|--|--|
| Rated Operational Voltage                              | 208 600 V AC   |
| Rated Control Supply<br>Voltage (U <sub>s</sub> )      | 100 250 V AC   |
| Rated Control Circuit<br>Voltage (U <sub>c</sub> )     | 24 V DC  |
| Rated Frequency (f)                                    | 50/60 Hz<br>Main Circuit 50 / 60 Hz                      |
| Rated Operational Power<br>- In-Line Connection (Pe)   | (230 V) 4 kW<br>(400 V) 7.5 kW<br>(500 V) 11 kW          |
| Rated Operational Current<br>- In-Line Connection (Ie) | 18 A   |
| Service Factor<br>Percentage                           | 100 %  |
| Overload Protection                                    | Build-in electronic overload protection                  |
| Integrated Electronic<br>Overload                      | Yes  |
| Adjustable Rated Motor<br>Current le                   | 30 100 %   |
| Starting Capacity at<br>Maximum Rated Current<br>le    | 4xle for 10s   |
| Ramp Time  | 0 30 second [unit of time]<br>1 30 second [unit of time] |
| Initial Voltage During Start                           | 30 70 %  |

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| Step Down Voltage  | No %   |
|--|--|
| Special Ramp<br>Current Limit Function   | 1.5 7xle   |
| Switch for Inside Delta<br>Connection  | No   |
| Run Signal Relay   | Yes  |
| By-pass Signal Relay   | Yes  |
| Fault Signal Relay   | Yes  |
| Overload Signal Relay  | Yes  |
| Analog Outputs   | 420 mA   |
| Signal Indication<br>Completed Start Ramp<br>(LED)                               | Green  |
| Signal Indication Ready to<br>Start/Standby ON (LED)                             | Green  |
| Signal Indication Running<br>R (LED)   | Green  |
| Signal Indication Ramping<br>Up/Down (LED)                                       | Green  |
| Signal Indication<br>Protection (LED)  | Yellow   |
| Signal Indication Fault<br>(LED)   | Red  |
| Number of Starts Per<br>Hour at 3.5*le for 7 sec.<br>50% ON Time 50% OFF<br>Time | 10   |
| Communication  | Modbus-RTU   |
| Degree of Protection   | IP00   |
| Terminal Type  | Screw Terminals  |
| Connecting Capacity Main<br>Circuit  | Hole Diameter 8.5 mm<br>Rigid 1/2 x 2.5 70 mm²<br>Width and Thickness 17.5x5 mm  |
| Connecting Capacity<br>Control Circuit   | Rigid 1 x 2.5 mm²<br>Rigid 2 x 1.5 mm²   |
| Connecting Capacity<br>Supply Circuit  | Rigid 1 x 2.5 mm²  |
| Tightening Torque  | Control Circuit 0.5 N·m<br>Main Circuit 9 N·m<br>Supply Circuit 0.5 N·m  |
| Product Main Type  | PSE18  |
| Function   | Soft start with torque control<br>Soft start with voltage ramp<br>Soft stop with torque control<br>Soft stop with voltage ramp<br>Kick start<br>Sequence start<br>Current limit<br>Start reverse (external contactors)<br>Automatic restart<br>Event log |
| Protection Function  | Electronic overload protection, EOL; Locked rotor protection; Current underload protection   |

| Technical UL/CSA                                  |   |
|---|---|
| Maximum Operating<br>Voltage UL/CSA               | Main Circuit 600 V  |
| Tightening Torque                                 | Control Circuit 4.4 in Ib                                       |
| UL/CSA  | Main Circuit 79.7<br>Supply Circuit 4.4 in·lb                   |
|   |   |
| Environmental                                     |   |
| Ambient Air Temperature                           | Operation -25 +60 °C<br>Storage -40 +70 °C                      |
| Degree of Protection                              | IPOC  |
|   |   |
| Material Compliance                               |   |
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658   |
| RoHS Information                                  | 1SFC132043D0201   |
| RoHS Status                                       | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| WEEE B2C / B2B                                    | Business To Business  |
| WEEE Category                                     | 5. Small Equipment (No External Dimension More Than 50 cm)      |
| Certificates and Declarations                     |   |
| CQC Certificate                                   | CQC2011010304468093   |
| Declaration of Conformity<br>- CCC                | 2020980304001546  |
| Declaration of Conformity<br>- CE                 | 2CMT2015-005447   |
| Container Information                             |   |
| Package Level 1 Width                             | 178 mm  |
| Package Level 1 Depth /<br>Length                 | 257 mm  |
| Package Level 1 Height                            | 288 mm  |
| Package Level 1 Gross<br>Weight                   | 3.2 kg  |
| Package Level 1 EAN                               | 7320500400593   |
| Package Level 1 Units                             | box 1 piece   |
| Classifications                                   |   |
| Object Classification Code                        | Q   |
| ETIM 7  | EC000640 - Soft starter   |
| ETIM 8  | EC000640 - Soft starter   |
|   |   |

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| ETIM 9                                | EC000640 - Soft starter |
|---------------------------------------|-------------------------|
| eClass                                | V11.0 : 27370907        |
| UNSPSC                                | 39121521                |
| IDEA Granular Category<br>Code (IGCC) | 4740 >> Soft starter    |

| Accessories     |                              |           |          |                    |
|-----------------|------------------------------|-----------|----------|--------------------|
| ldentifier      | Description                  | Туре      | Quantity | Unit Of<br>Measure |
| 1SFN074307R1000 | LW110 Terminal Enlargement   | LW110     | 1        | piece              |
| 1SFN124203R1000 | LT140-30L Terminal Shroud    | LT140-30L | 1        | piece              |
| 1SFA897100R1001 | PSEEK EXTERNAL KEYPAD        | PSEEK     | 1        | piece              |
| 1SFA897201R1001 | PSECA USB cable              | PSECA     | 1        | piece              |
| 1SFA896312R1002 | PS-FBPA Fieldbus plug kit    | PS-FBPA   | 1        | piece              |
| 1SFA899300R1020 | PS-MBIA Communication Module | PS-MBIA   | 1        | piece              |

## Categories

 $\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{Softstarters} \to \mathsf{PSE} \ \mathsf{Softstarters} \to \mathsf{PSE18}$ 

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Softstarters  $\rightarrow$  PSE Softstarters  $\rightarrow$  PSE18





