

PRODUCT-DETAILS

# PSE85-600-70

## PSE85-600-70 Softstarter



### General Information

Global Commercial Alias	PSE85-600-70
Extended Product Type	PSE85-600-70
Product ID	1SFA897108R7000
ABB Type Designation	PSE85-600-70
EAN	7320500400661
Catalog Description	PSE85-600-70 Softstarter

### Long Description

The softstarter PSE85-600-70 has a rated maximum operational current of 85 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. PSE features a two-phase control with a 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 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, but we can also use an external adaptor and a Fieldbus plug. The new generation PSE is a true general purpose softstarter. It's a perfect balance between high starting capacity and cost efficiency. It is now featuring built-in Fieldbus communication. They are 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.

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85044090

## Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
Instructions and Manuals	1SFC132057M0201

## Dimensions

Product Net Width	90 mm
Product Net Height	245 mm
Product Net Depth / Length	184 mm
Product Net Weight	2.6 kg

## Technical

Rated Operational Voltage	208 ... 600 V AC
Rated Control Supply Voltage (U <sub>s</sub> )	100 ... 250 V AC
Rated Control Circuit Voltage (U <sub>c</sub> )	DC Operation 24 V
Rated Frequency (f)	50/60 Hz Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection (P <sub>e</sub> )	(230 V) 22 kW (400 V) 45 kW (500 V) 55 kW
Rated Operational Current - In-Line Connection (I <sub>e</sub> )	85 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	0 ... 30 second [unit of time] 1 ... 30 second [unit of time]
Initial Voltage During Start	30 ... 70 %
Step Down Voltage Special Ramp	No %
Current Limit Function	1.5 ... 7xI <sub>e</sub>
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*le for 7 sec. 50% ON Time 50% OFF Time	10
Communication	FiledBusPlug(Optional)
Degree of Protection	IP00
Terminal Type	Screw Terminals
Connecting Capacity Main Circuit	Hole Diameter 8.5 mm Rigid 1/2 x 2.5 ... 70 mm <sup>2</sup> Width and Thickness 17.5x5 mm
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm <sup>2</sup> Rigid 2 x 1.5 mm <sup>2</sup>
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm <sup>2</sup>
Tightening Torque	Control Circuit 0.5 N·m Main Circuit 9 N·m Supply Circuit 0.5 N·m
Product Main Type	PSE85

### Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Ampere Rating UL/CSA	80 A
Tightening Torque UL/CSA	Control Circuit 4.4 in·lb Main Circuit 79.7 Supply Circuit 4.4 in·lb

### Environmental

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

### Certificates and Declarations (Document Number)

CQC Certificate	CQC2011010304468093
Declaration of Conformity - CCC	2020980304001546
Declaration of Conformity - CE	2CMT2015-005447
Environmental Information	1SFC132042D0201
Instructions and Manuals	1SFC132057M0201
RoHS Information	1SFC132043D0201

### Container Information

Package Level 1 Width	178 mm
Package Level 1 Depth / Length	257 mm
Package Level 1 Height	288 mm
Package Level 1 Gross Weight	3.3 kg
Package Level 1 EAN	7320500400661
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 → PSE Softstarters → PSE85

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSE Softstarters → PSE85

