

PRODUCT-DETAILS

PSE250-600-70-1

PSE250-600-70-1 Softstarter



General Information

Global Commercial Alias	PSE250-600-70-1
Extended Product Type	PSE250-600-70-1
Product ID	1SFA897113R7001
ABB Type Designation	PSE250-600-70-1
EAN	7320500515037
Catalog Description	PSE250-600-70-1 Softstarter

Long Description

The softstarter PSE250-600-70-1 has a rated maximum operational current of 250 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 hardware 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	190 mm
Product Net Height	435 mm
Product Net Depth / Length	237 mm
Product Net Weight	10.6 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 Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection (P_e)	(230 V) 75 kW (400 V) 132 kW (500 V) 160 kW
Rated Operational Current - In-Line Connection (I_e)	250 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	4xle 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 ... 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*I _e for 7 sec. 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 mm Rigid 1/2 x 2.5 ... 70 mm ² Width and Thickness 17.5x5 mm
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm ² Rigid 2 x 1.5 mm ²
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm ²
Tightening Torque	Control Circuit 0.5 N·m Main Circuit 28 N·m Supply Circuit 0.5 N·m
Product Main Type	PSE250

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Ampere Rating UL/CSA	248 A
Tightening Torque UL/CSA	Control Circuit 4.4 in·lb Main Circuit 247.8 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	CQC2018010304109915
Declaration of Conformity - CCC	2020980304001510

Declaration of Conformity - CE	2CMT2015-005447
Environmental Information	1SFC132042D0201
Instructions and Manuals	1SFC132057M0201
RoHS Information	1SFC132043D0201

Container Information

Package Level 1 Width	261 mm
Package Level 1 Depth / Length	325 mm
Package Level 1 Height	510 mm
Package Level 1 Gross Weight	13.3 kg
Package Level 1 EAN	7320500515037
Package Level 1 Units	box 1 piece

Classifications

Object Classification Code	Q
ETIM 6	EC002572 - Motor management device
eClass	V11.0 : 27370907
UNSPSC	39121521

Categories

Drives → Softstarters → Softstarters → PSE Softstarters → PSE250

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSE Softstarters → PSE250

