

PRODUCT-DETAILS

PSE170-600-70

PSE170-600-70 Softstarter



General Information

Global Commercial Alias	PSE170-600-70
Extended Product Type	PSE170-600-70
Product ID	1SFA897111R7000
ABB Type Designation	PSE170-600-70
EAN	7320500400692
Catalog Description	PSE170-600-70 Softstarter

Long Description

The softstarter PSE170-600-70 has a rated maximum operational current of 170 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 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
Instructions and Manuals	1SFC132057M0201
CAD Dimensional Drawing	2CDC001079B0201

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)	24 V DC
Rated Frequency (f)	50/60 Hz Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection (P _e)	(230 V) 45 kW (400 V) 90 kW (500 V) 110 kW
Rated Operational Current - In-Line Connection (I _e)	171 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	4xI _e 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 _e
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	Modbus-RTU
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 18 N·m Supply Circuit 0.5 N·m
Product Main Type	PSE170
Function	Soft start with torque control Soft start with voltage ramp Soft stop with torque control Soft stop with voltage ramp Kick start Sequence start Current limit Start reverse (external contactors) Automatic restart Event log
Protection Function	Electronic overload protection, EOL; Locked rotor protection; Current underload protection

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Tightening Torque UL/CSA	Control Circuit 4.4 in·lb Main Circuit 159.3 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	CQC2011010304468089
Declaration of Conformity - CCC	2020980304001545
Declaration of Conformity - CE	2CMT2015-005447
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	7320500400692
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
eClass	V11.0 : 27370907
UNSPSC	39121521

Categories

Drives → Softstarters → Softstarters → PSE Softstarters → PSE170

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSE Softstarters → PSE170

