



PRODUCT-DETAILS

PSE85-600-70

PSE85-600-70 Softstarter - 85 A - 208 ... 600 V AC



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 - 85 A - 208 ... 600 V AC

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 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 purpose softstarter. It's a perfect balance between high starting capacity and cost efficiency. 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.

Display Name:	PSE85-600-70
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Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85371091

Popular Downloads

Data Sheet, Technical Information:	1SFC132012C0201
Instructions and Manuals:	1SFC132427M0201
Instructions and Manuals (Part 2):	1SFC132057M0201
Instructions and Manuals (Part 3):	1SFC132060M0201
CAD Dimensional Drawing:	2CDC001079B0201
EPLAN Data:	9AAC170232_EPLAN
Wiring Diagram:	N/A

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_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 (Pe):	(230 V) 22 kW (400 V) 45 kW (500 V) 55 kW
Rated Operational Current - In-Line Connection (Ie):	85 A
Service Factor Percentage:	100 %
Overload Protection:	Build-in electronic overload protection
Integrated Electronic Overload:	Yes
Starting Capacity at Maximum Rated Current Ie:	4xIe for 10s
Ramp Time:	0 ... 30 s 1 ... 30 s
Initial Voltage During Start:	30 ... 70 %
Step Down Voltage Special Ramp:	No %
Current Limit Function:	1.5 ... 7xIe
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. 50% ON Time 50% OFF Time:	10
Communication:	Modbus-RTU
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Terminal Type:	Screw Terminals
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
Tightening Torque:	Control Circuit 0.5 N·m Main Circuit 9 N·m Supply Circuit 0.5 N·m
Product Main Type:	PSE85

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

Horsepower Rating UL/CSA:	(200 ... 208 V AC) Three Phase 25 Hp (220 ... 240 V AC) Three Phase 30 Hp (440 ... 480 V AC) Three Phase 60 Hp (550 ... 600 V AC) Three Phase 75 Hp
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
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
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Material Compliance

Conflict Minerals Reporting Template (CMRT):	9AKK108467A5658
REACH Declaration:	2CMT2022-006481
RoHS Declaration:	2CMT2022-006500
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA:	2CMT2023-006524
WEEE B2C / B2B:	Business To Business
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

Environmental Product Declaration - EPD:	1SFC132474D0201
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Certificates and Declarations

CQC Certificate:	CQC2011010304468093
Declaration of Conformity - CCC:	2020980304001546

Declaration of Conformity - CE:	2CMT2015-005447
DNV Certificate:	1SFC132383M0001 TAE0000342
EU Data Act Compliance Declaration:	1SFC132495M0201

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

External Classifications and Standards

Object Classification Code:	Q
ETIM 7:	EC000640 - Soft starter
ETIM 8:	EC000640 - Soft starter
ETIM 9:	EC000640 - Soft starter
eClass:	V11.0 : 27370907
UNSPSC:	39121521
IDEA Granular Category Code (IGCC):	4740 >> Soft starter

Accessories

Identifier	Description	Type	Qty	Unit Of 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

Products > Drives > Softstarters > Softstarters > PSE Softstarters > PSE85

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

