

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 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 efficiency. Very suitable for small to medium-sized three-phase motors with nominal currents from 18370 A. Typical applications are, for example, pumps, fans, compressors, and conveyors.

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Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

1SFC132012C0201
1SFC132057M0201
2CDC001079B0201
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 <sub>s</sub> )	100 250 V AC
Rated Control Circuit Voltage (U $_{\rm c}$ )	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
Adjustable Rated Motor Current le	30 100 %
Starting Capacity at Maximum Rated Current le	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	420 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	Screw Terminals
Connecting Capacity Main Circuit	Hole Diameter 8.5 mm Rigid 1/2 x 2.5 70 mm² Width and Thickness 17.5x5 mm
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm² Rigid 2 x 1.5 mm²
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
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
Protection Function	Event log Electronic overload protection, EOL; Locked rotor protection; Current underload
Technical UL/CSA	protection
Maximum Operating	Main Circuit 600 V
Voltage UL/CSA	Control Circuit 4.4 in Ib
Tightening Torque UL/CSA	Main Circuit 79.7
	Supply Circuit 4.4 in Ib
Environmental	Supply Circuit 4.4 in Ib
Environmental Ambient Air Temperature	Operation -25 +60 °C
Ambient Air Temperature Degree of Protection	Operation -25 +60 °C Storage -40 +70 °C
Ambient Air Temperature Degree of Protection Material Compliance Conflict Minerals Reporting Template	Operation -25 +60 °C Storage -40 +70 °C
Ambient Air Temperature Dearee of Protection Material Compliance Conflict Minerals Reporting Template (CMRT)	Operation -25 +60 °C Storage -40 +70 °C IP00 9AKK108467A5658
Ambient Air Temperature Dearee of Protection Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration	Operation -25 +60 °C Storage -40 +70 °C IP00 9AKK108467A5658 2CMT2022-006481
Ambient Air Temperature Degree of Protection Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information	Operation -25 +60 °C Storage -40 +70 °C IP00 9AKK108467A5658 2CMT2022-006481 2CMT2022-006500
Ambient Air Temperature Degree of Protection  Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status	Operation -25 +60 °C Storage -40 +70 °C IP00 9AKK108467A5658 2CMT2022-006481 2CMT2022-006500 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Ambient Air Temperature Dearee of Protection Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information	Operation -25 +60 °C Storage -40 +70 °C IP00 9AKK108467A5658 2CMT2022-006481 2CMT2022-006500

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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 - CCC	2020980304001546
Declaration of Conformity - CE	2CMT2015-005447

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

Classifications	
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 <u>Code (IGCC)</u>	4740 >> Soft starter

Accessories				
ldentifier	Description	Туре	Quantity	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**

 $\label{eq:products} \begin{aligned} &\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{PSE} \ \mathsf{Softstarters} \to \mathsf{PSE85} \\ &\mathsf{Low} \ \mathsf{Voltage} \ \mathsf{Products} \ \mathsf{and} \ \mathsf{Systems} \to \mathsf{Control} \ \mathsf{Products} \to \mathsf{Softstarters} \to \mathsf{Softstarters} \to \mathsf{PSE85} \\ \end{aligned}$ 





