

PRODUCT-DETAILS

# PSE45-600-70 PSE45-600-70 Softstarter - 45 A - 208 ... 600 V AC



#### General Information

Global Commercial Alias	PSE45-600-70
Extended Product Type	PSE45-600-70
Product ID	1SFA897105R7000
ABB Type Designation	PSE45-600-70
EAN	7320500400630
Catalog Description	PSE45-600-70 Softstarter - 45 A - 208 600 V AC

Long Description

The softstarter PSE45-600-70 has a rated maximum operational current of 45 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.

Minimum Order Quantity		1 piece		
Customs Tariff Number				
Popular Downloads				
Data Sheet, Technical Information		1SFC132012C0201		
Instructions and Manuals		1SFC132057M0201		
CAD Dimensional Drawing		2CDC001079B0201		
Wiring Diagram		N/A_		
Dimensions				
Product Net Width		90 mm		
Product Net Height		245 mm		
Product Net Depth / Length		184 mm		
Product Net Weight		2.5 kg		
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> )		24 V DC		
Rated Frequency (f)		50/60 Hz Main Circuit 50 / 60 Hz		
Rated Operational Power - In-Line Connection (Pe)		(230 V) 11 kW (400 V) 22 kW (500 V) 30 kW		
Rated Operational Current - In-Line Connection (Ie)		45 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		No		
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Connection	
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 mm²
Tightening Torque	Control Circuit 0.5 N⋅m Main Circuit 9 N⋅m Supply Circuit 0.5 N⋅m
Product Main Type	PSE45
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 79.7

Environmental	
Ambient Air Temperature	Operation -25 +60 °C Storage -40 +70 °C
Degree of Protection	IP00
RoHS Information	1SFC132043D020 <sup>-</sup>
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendmen
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	3.2 kg
Package Level 1 EAN	7320500400630
Package Level 1 Units	box 1 piece
Classifications	
Object Classification Code	Q
ETIM 7	EC000640 - Soft starter
ETIM 8	EC000640 - Soft starter
ETIM O	EC000640 - Soft starter
ETIM 9	
	V11.0 : 27370907
eClass UNSPSC	V11.0 : 27370907 39121521

## Accessories

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Identifier	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

 $\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{PSE} \ \mathsf{Softstarters} \to \mathsf{PSE45}$ 

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Softstarters\ \rightarrow\ PSE\ Softstarters\ \rightarrow$ 





