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PRODUCT-DETAILS

PSE170-600-70 PSE170-600-70 Softstarter - 171 A - 208 ... 600 V AC



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 - 171 A - 208 600 V AC
Long Description	The softstarter PSE170-600-70 has a rated maximum operational current of 170 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 effi-ciency. 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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1 <u>r</u>	Minimum Order Quantity
8537	Customs Tariff Number
	Popular Downloads
1SFC132012C0	Data Sheet, Technical Information
1SFC132057M	Instructions and Manuals
2CDC001079B0	CAD Dimensional
	Drawing Winter Discourse
	Wiring Diagram
	Dimensions
130	Product Net Width
295	Product Net Height
220	Product Net Depth /
4	Length Product Net Weight
4	Product Net Weight
	Technical
208 600 \	Rated Operational Voltage
100 250 \	Rated Control Supply Voltage (U_s)
24 \	Rated Control Circuit Voltage ($\mathrm{U_{c}}$)
50/6 Main Circuit 50 / 6	Rated Frequency (f)
(230 V) 4! (400 V) 9((500 V) 110	Rated Operational Power - In-Line Connection (Pe)
1	Rated Operational Current - In-Line Connection (le)
10	Service Factor Percentage
Build-in electronic overload prote	Overload Protection
	Integrated Electronic Overload
30 10	Adjustable Rated Motor Current le
4xle for	Starting Capacity at Maximum Rated Current le
0 30 second [unit of t 1 30 second [unit of t	Ramp Time
30 7	Initial Voltage During Start
1	Step Down Voltage Special Ramp
1.5	Current Limit Function
	Switch for Inside Delta Connection
	Run Signal Relay
	By-pass Signal Relay
	Fault Signal Relay
	Overload Signal Relay
420 G	Analog Outputs Signal Indication Completed Start Ramp

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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	<u>IP00</u>	
Terminal Type	Main Circuit: Bars	
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	Rigid 1 x 2.5 mm ²	
Control Circuit	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	
	Front los	
Protection Function	Event log Electronic overload protection, EOL; Locked rotor protection; Current underload protection	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb	
Technical UL/CSA Maximum Operating Voltage UL/CSA	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb Operation -25 +60 °C Storage -40 +70 °C	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb Operation -25 +60 °C Storage -40 +70 °C	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Degree of Protection	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb Operation -25 +60 °C Storage -40 +70 °C	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Degree of Protection Material Compliance Conflict Minerals Reporting Template	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb Operation -25 +60 °C Storage -40 +70 °C IP00	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Degree of Protection Material Compliance Conflict Minerals Reporting Template (CMRT)	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb Operation -25 +60 °C Storage -40 +70 °C IP00	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Degree of Protection Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb Operation -25 +60 °C Storage -40 +70 °C IP00 9AKK108467A5658	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Degree of Protection Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in-lb Main Circuit 159.3 Supply Circuit 4.4 in-lb Operation -25 +60 °C Storage -40 +70 °C IP00 9AKK108467A5658 2CMT2022-006481 2CMT2022-006500	
Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Degree of Protection Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status	Electronic overload protection, EOL; Locked rotor protection; Current underload protection Main Circuit 600 V Control Circuit 4.4 in·lb Main Circuit 159.3 Supply Circuit 4.4 in·lb 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	

Certificates and Declarations	
CQC Certificate	CQC2011010304468089
Declaration of Conformity - CCC	2020980304001545
Declaration of Conformity - CE	2CMT2015-005447

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 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	Туре	Quantity	Unit Of Measure
1SDA066917R1	KIT FC Cu XT4 3pcs	KIT FC Cu XT4 3pcs	1	piece
1SDA054988R1	KIT FC CuAl 1x185mm2 T4 3pcs	KIT FC CuAl 1x185mm2 T4 3pcs	1	piece
1SFN074707R1000	LW185 Terminal Enlargement	LW185	1	piece
1SFA899221R1002	PSLE-185 TERMINAL KIT	PSLE-185	1	piece
1SFN074810R1000	LX205 Terminal Extension	LX205	1	piece
1SFN124701R1000	LT185-AC Terminal Shroud	LT185-AC	1	piece
1SFN124703R1000	LT185-AL Terminal Shroud	LT185-AL	1	piece
1SFN074709R1000	LZ185-2C/120 Cable Clamp Connector	LZ185-2C/120	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

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Categories

 $Drives \rightarrow Softstarters \rightarrow PSE \ Softstarters \rightarrow PSE170 \\ Low \ Voltage \ Products \ and \ Systems \rightarrow Control \ Products \rightarrow Softstarters \rightarrow Softstarters \rightarrow PSE \ Softstarters \rightarrow PSE170 \\ Low \ Voltage \ Products \ and \ Systems \rightarrow Control \ Products \rightarrow Softstarters \rightarrow PSE \ Softstarters \rightarrow PSE170 \\ Low \ Voltage \ Products \ and \ Systems \rightarrow Control \ Products \rightarrow Softstarters \rightarrow PSE \ Softstarters \rightarrow PSE170 \\ Low \ Voltage \ Products \ Annual \ PSE170 \\ Low \ Voltage \ Products \ Annual \ PSE170 \\ Low \ Voltage \ Products \ Annual \ PSE170 \\ Low \ Voltage \ Products \ Annual \ PSE170 \\ Low \ Voltage \ Products \ Annual \ PSE170 \\ Low \ Voltage \ Products \ Annual \ PSE170 \\ Low \ Voltage \ Products \ Annual \ PSE170 \\ Low \ PSE170 \\ Rod \ PSE170$





