

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 effilCiency 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.

© 2024 ABB. All rights reserved.

2024/07/07

Subject to change without notice

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
Wiring Diagram		N/A
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 (Pe)		(230 V) 45 kW (400 V) 90 kW (500 V) 110 kW
Rated Operational Current - In-Line Connection (Ie)		171 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 Ie		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
© 2024 ABB. All rights reserved.	2024/07/07	Subject to change

Subject to change without notice

Switch for Inside Delta	No
Connection	Yes
Run Signal Relay	Yes
By-pass Signal Relay	
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	IPOO
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 Control Circuit	Rigid 1 x 2.5 mm² Rigid 2 x 1.5 mm²
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm ²
Tightening Torque	Control Circuit 0.5 N·m Main Circuit 18 N·m
Product Main Type	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 \
Tightening Torque UL/CSA	Control Circuit 4.4 in·ll Main Circuit 159. Supply Circuit 4.4 in·ll

© 2024 ABB. All rights reserved.

Subject to change without notice

Environmental	
Ambient Air	Operation -25 +60 °C
Temperature	Storage -40 +70 °C
Degree of Protection	IPOO

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006481
RoHS Information	2CMT2022-006500
RoHS Status	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)
Certificates and Declarations	CQC2011010304468089
Declaration of Conformity - CCC	2020980304001545
Declaration of Conformity - CE	2CMT2015-005447
Container Information	
Container Information Package Level 1 Width	203 mm
Package Level 1 Width Package Level 1 Depth /	203 mm 282 mm 363 mm
Package Level 1 Width Package Level 1 Depth / Length	282 mm
Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Height Package Level 1 Gross	282 mm 363 mm
Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Height Package Level 1 Gross Weight	282 mm 363 mm 5.4 kg 7320500400692
Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Height Package Level 1 Gross Weight Package Level 1 EAN	282 mm 363 mm 5.4 kg
Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Height Package Level 1 Gross Weight Package Level 1 EAN Package Level 1 Units	282 mm 363 mm 5.4 kg 7320500400692
Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Height Package Level 1 Gross Weight Package Level 1 EAN Package Level 1 Units Classifications Object Classification	282 mm 363 mm 5.4 kg 7320500400692 box 1 piece

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

Categories

 $\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{Softstarters} \to \mathsf{PSE} \ \mathsf{Softstarters} \to \mathsf{PSE170}$

 $\text{Low Voltage Products and Systems} \rightarrow \text{Control Products} \rightarrow \text{Softstarters} \rightarrow \text{Softstarters} \rightarrow \text{PSE Softstarters} \rightarrow \text{PSE170}$





