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PRODUCT-DETAILS

PSTX1250-600-70

PSTX1250-600-70 Softstarter - 1250 A - 208 ... 600 V AC



General Information

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Catalog Description	PSTX1250-600-70 Softstarter - 1250 A - 208 600 V AC
EAN	7320500510469
ABB Type Designation	PSTX1250-600-70
Product ID	1SFA898121R7000
Extended Product Type	PSTX1250-600-70
Global Commercial Alias	PSTX1250-600-70

The softstarter PSTX1250-600-70 has a rated maximum operational current of 1250 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. PSTX features a three-phase control 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 relay outputs in NO (normally open state). The PSTX has functions such as current limit, kickstart, analog $\,$ output, EOL, motor heating and pump cleaning. PSTX also features features jog, braking, stand-still brake, diagnostics, sequence start and emergency/fire pump mode as standard. To interact with PSTX, it has a detachable full graphic display with IP66 and 4x outdoor rating. There are four ways to communicate with PSTX. It can be done by hardwire inputs Start/Stop/Reset of fault, and by three programmable digital inputs. Another popular option is the built-in Fieldbus communication Modbus RTU and incl optional ANYBUS modules with every major protocol such as for example Profinet, Profibus, Modbus TCP, Ethernet IP and others. Another way to communicate with PSTX is to use an external adaptor and a Fieldbus plug. PSTX is the complete alternative for any motor starting application. It's suitable for medium to large-sized three-phase motors with nominal currents from 30...1250 A inline connection or 52...2160 A inside delta connection. Typical applications are, for example, pumps, fans,

compressors, and conveyors.

Long Description

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

Popular Downloads

Wiring Diagram	N/A
CAD Dimensional Drawing	2CDC001079B0201
Instructions and Manuals	1SFC132081M0201
Data Sheet, Technical Information	1SFC132012C0201

Dimensions

Product Net Width	435 mm
Product Net Height	565 mm
Product Net Depth / Length	367 mm
Product Net Weight	63.3 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

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	Main Circuit 50 / 60 Hz
Rated Operational Power	(230 V) 400 kW
- In-Line Connection (Pe)	(400 V) 710 kW
	(500 V) 880 kW
Rated Operational Current - In-Line	1250 A
Connection (le)	
Rated Operational Power	at 230 V 670 kW
- Inside Delta	at 400 V 1200 kW
Connection	at 500 V 1500 kW
Rated Operational Current - Inside Delta	2160 A
Connection	
Service Factor	100 %
Percentage	
Overload Protection	Built-in electronic overload protection
Integrated Electronic	Yes
Overload	
Adjustable Rated Motor	30 100 %
Current le	4via for 10a
Starting Capacity at Maximum Rated Current	4xle for 10s
le	
Ramp Time	1 120 second [unit of time]
Initial Voltage During	10 99 %
Start	
Step Down Voltage	100 10 %
Special Ramp	
Current Limit Function	1.5 7.5 xle
Switch for Inside Delta Connection	Yes
Run Signal Relay	Yes
By-pass Signal Relay	Yes
Fault Signal Relay	Yes
Overload Signal Relay	Yes
Analog Outputs	010 V, 020 mA, 420 mA
Signal Indication Ready	Green
to Start/Standby ON (LED)	
Signal Indication	Green
Running R (LED)	Green.
Signal Indication	Yellow
Protection (LED)	
Signal Indication Fault (LED)	Red
Communication	Modbus-RTU; Modbus-TCP; Ethernet-IP; EtherCAT; DeviceNet; CANopen;
	Profibus; Profinet; BACnet-IP; BACnet-MSTP
Degree of Protection	IP00
Terminal Type	Main Circuit: Bars
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm ²
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm²
Tightening Torque	Main Circuit 45 N·m
Product Main Type	PSTX1250
Function	Auto phase sequence detection
	Automatic restart
	Current limit
	Current limit ramp Dual current limit
	Dynamic brake

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Electricity metering Electronic overload Time-to-cool Emergency mode Event log Full voltage start Jog with slow speed, forward and reverse Keypad password Kick start Limp mode with two-phase motor control if one set of thyristors is shorted Motor heating Pre-start function Pump cleaning Real time clock Sequence start Soft start with torque control Soft start with voltage ramp Soft stop with torque control Soft stop with voltage ramp Stand still brake Start reverse (external contactors) Thyristor runtime measurement Torque limit Voltage sags detection Bypass open protection; Current imbalance protection; Current underload protection; Dual overload (separate overload for start and run); Earth fault protection / ground fault protection; Electronic overload protection, EOL; Extension IO failure protection; Fieldbus failure protection; HMI failure protection; Locked rotor protection; Max number of starts/hour; Over voltage protection; Phase reversal protection; Power factor underload protection; PT-100 connection; PTC connection; Too long current limit

Extension IO failure protection; Fieldbus failure protection; HMI failure protection; Locked rotor protection; Max number of starts/hour; Over voltage protection; Phase reversal protection; Power factor underload protection; PT-100 connection; PTC connection; Too long current limit protection; Too long start time protection; Under voltage protection; User defined protection; Voltage imbalance protection

Current imbalance warning; Current underload warning; Electronic overload Time-to-trip; EOL warning; Faulty fan warning; Locked rotor warning; Motor runtime limit warning; Over voltage warning; Phase loss

overload Time-to-trip; EOL warning; Faulty fan warning; Locked rotor warning; Motor runtime limit warning; Over voltage warning; Phase loss warning (for standby); Power factor underload warning; Short circuit warning (for Limp mode); THD(U) - Total Harmonic Distortion warning; Thyristor overload warning (SCR); Under voltage warning; Voltage imbalance warning

Technical UL/CSA

Protection Function

Warning Details

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Tightening Torque UL/CSA	Main Circuit 398.3

Environmental

Ambient Air	Operation -25 +60 °C
Temperature	Storage -40 +70 °C
Degree of Protection	IP00

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Conflict Minerals	9AKK108467A5658
Reporting Template (CMRT)	
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	2CMT2023-006524

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Control Act - TSCA

WEEE B2C / B2B	Business To Business
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Certificates and Declarations		
CQC Certificate	CN: CQC2015010304830298 / SE: CQC2015010304830294	
Declaration of Conformity - CCC	CN: 2020980304001097 / SE: 2020980304001508	
Declaration of Conformity - CE	2CMT005209	

Container Information		
Package Level 1 Width	600 mm	
Package Level 1 Depth / Length	616 mm	
Package Level 1 Height	800 mm	
Package Level 1 Gross Weight	75.3 kg	
Package Level 1 EAN	7320500510469	
Package Level 1 Units	box 1 piece	

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

Accessories

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Identifier	Description	Туре	Quantity	Unit Of Measure
1SDA013956R1	KIT FC CuAl 3x185mm2 T6 800-S6 800 6pcs	KIT FC CuAl 3x185mm2 T6 800-S6 800 6pcs	1	piece
1SDA023380R1	KIT FC CuAl 2x240mm2 T6 630-S6 630 3pcs	KIT FC CuAl 2x240mm2 T6 630-S6 630 3pcs	1	piece
1SFN126101R1000	LT750-AC Terminal shroud	LT750-AC	1	piece
1SFN126103R1000	LT750-AL Terminal shroud	LT750-AL	1	piece
1SFA899314R1001	PSCA-1 USB cable	PSCA-1	1	piece
1SFA899300R1001	AB-PROFIBUS-1 Communication Module	AB-PROFIBUS- 1	1	piece
1SFA899300R1002	AB-DEVICENET-1 Communication Module	AB- DEVICENET-1	1	piece
1SFA899300R1003	AB-MODBUS-RTU-1 Communication Module	AB-MODBUS- RTU-1	1	piece
1SFA899300R1006	AB-ETHERNET-IP-2 Communication Module	AB-ETHERNET -IP-2	1	piece
1SFA899300R1008	AB-MODBUS-TCP-2 Communication Module	AB-MODBUS- TCP-2	1	piece
1SFA899300R1010	AB-PROFINET-IO-2 Communication Module	AB-PROFINET- IO-2	1	piece
1SFA899300R1011	AB-BACNET-MSTP-1 Communication Module	AB-BACNET- MSTP-1	1	piece
1SFA899300R1012	AB-ETHERCAT-IP-2 Communication Module	AB-ETHERCAT -IP-2	1	piece
1SAJ611000R0101	DX111-FBP.0 IO-Module for UMC100 DI 24 VDC, supply 24VDC	DX111-FBP.0	1	piece
1SAJ622000R0101	DX122-FBP.0 IO-Module for UMC100 DI 110/230VAC, supply 24VDC	DX122-FBP.0	1	piece
1SFA896312R1002	PS-FBPA Fieldbus plug kit	PS-FBPA	1	piece

Categories

 $\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{PSTX} \ \mathsf{Softstarters} \to \mathsf{PSTX1250}$

 $Low\ Voltage\ Products\ \rightarrow Control\ Products\ \rightarrow Softstarters\ \rightarrow PSTX\ Softstarters\ \rightarrow\ PSTX\ 1250$

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