



PRODUCT-DETAILS

PSTX142-600-70

PSTX142-600-70 Softstarter - 142 A - 208 ...
600 V AC



General Information

Global Commercial Alias:	PSTX142-600-70
Extended Product Type:	PSTX142-600-70
Product ID:	1SFA898110R7000
ABB Type Designation:	PSTX142-600-70
EAN:	7320500501467
Catalog Description:	PSTX142-600-70 Softstarter - 142 A - 208 ... 600 V AC

Long Description:

The softstarter PSTX142-600-70 has a rated maximum operational current of 142 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.

Display Name:	PSTX142-600-70
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Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85371091

Popular Downloads

Data Sheet, Technical Information:	1SFC132012C0201
Instructions and Manuals:	1SFC132428M0201
Instructions and Manuals (Part 2):	1SFC132081M0201
Instructions and Manuals (Part 3):	1SFC132060M0201
CAD Dimensional Drawing:	2CDC001079B0201
EPLAN Data:	9AAC181166_EPLAN
Wiring Diagram:	N/A

Dimensions

Product Net Width:	199 mm
Product Net Height:	377 mm
Product Net Depth / Length:	283.3 mm
Product Net Weight:	7 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) 37 kW (400 V) 75 kW (500 V) 90 kW
Rated Operational Current - In-Line Connection (Ie):	142 A
Rated Operational Power - Inside Delta Connection:	at 230 V 75 kW at 400 V 132 kW at 500 V 160 kW
Rated Operational Current - Inside Delta Connection:	245 A
Service Factor Percentage:	100 %
Overload Protection:	Built-in electronic overload protection
Integrated Electronic Overload:	Yes
Starting Capacity at Maximum Rated Current Ie:	4xle for 10s
Ramp Time:	1 ... 120 second [unit of time]
Initial Voltage During Start:	10 ... 99 %
Step Down Voltage Special Ramp:	100 ... 10 %
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:	0...10 V, 0...20 mA, 4...20 mA
Signal Indication Ready to Start/Standby ON (LED):	Green
Signal Indication Running R (LED):	Green
Signal Indication Protection (LED):	Yellow
Signal Indication Fault (LED):	Red
Communication:	Modbus-RTU; Modbus-TCP; Ethernet-IP; EtherCAT; DeviceNet; CANopen; Profibus; Profinet; BACnet-IP; BACnet-MSTP
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Terminal Type:	Main Circuit: Bars
Connecting Capacity Main Circuit:	Hole Diameter 8.5 mm
Connecting Capacity Control Circuit:	Rigid 1 x 2.5 mm ²
Connecting Capacity Supply Circuit:	Rigid 1 x 2.5
Tightening Torque:	Main Circuit 14 N·m
Product Main Type:	PSTX142

Function:	Auto phase sequence detection Automatic restart Current limit Current limit ramp Dual current limit Dynamic brake 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
Protection Function:	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 protection; Too long start time protection; Under voltage protection; User defined protection; Voltage imbalance protection
Warning Details:	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 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

Horsepower Rating UL/CSA:	(200 ... 208 V AC) Three Phase 40 Hp (220 ... 240 V AC) Three Phase 50 Hp (440 ... 480 V AC) Three Phase 100 Hp (550 ... 600 V AC) Three Phase 125 Hp
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
Tightening Torque UL/CSA:	Main Circuit 123.9

Environmental

Ambient Air Temperature:	Operation -25 ... +60 °C Storage -40 ... +70 °C
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Material Compliance

Conflict Minerals Reporting Template (CMRT):	9AKK108467A5658
REACH Declaration:	2CMT2022-006481
RoHS Declaration:	2CMT2022-006500
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
SCIP:	26f21088-b8bb-4914-b092-1fc09456661d China
Simplified SCIP:	0ab76afe-9586-406c-b1d9-3f72d29c6360 Netherlands 117db3bc-26f8-486b-9661-9213c47e0dce Germany 13efe971-0aef-4a3e-b200-9388f7b13699 Sweden 14290cdf-4981-4228-ac25-fb6ff6bede1 Poland 2a18edcd-ab8d-49d6-9e8e-a36742111f1c Belgium 3833bc73-a767-402d-b8b2-abad0c0099a9 Norway 3ac3b2ef-d72e-4baa-a85b-7a6308c05cd5 France 3ce45bbe-7f17-4746-a062-621c143a1593 Belgium 45148e2f-b3ab-4084-a4ff-2d3992dff4e3 Greece 483327c0-4c3f-426a-8884-5793dc883e80 Germany 4895692a-8d27-4479-86bf-173e094805d8 Finland 693ca665-b359-42b9-8505-0a1d73f17bb1 Croatia 721706c8-8f98-4edd-93f6-85eb76f49408 Sweden 734b7456-6afc-4ba5-9eb1-e44eb712b188 Estonia 7c8972af-46d8-45d8-9928-ca11c959706a Bulgaria 84993a02-0bda-48c2-a072-0f582e778ff3 Hungary 9601f0fb-71c8-46d6-901c-b0c11e41b94c Germany 98705313-f7c3-4ad9-bc8e-c866590c7b4c Germany a46c12be-e940-4ade-9322-97a2ddebaed Portugal a7d57835-a734-4c2d-9f77-81733f7491bf Hungary ced2cf36-a96f-4b81-ac85-517042ee7ef1 Germany d73af370-e733-4369-9550-2ae47c351b48 Poland d8506a36-85a5-4e05-9a69-9b4c090cc148 Spain e079558d-a47b-4f28-8edf-f04ab44fd258 France e7f3ccdd-9d79-4c97-84ad-b4c479119f1b Poland ef546eb4-0fda-49d8-947c-db988a7a5730 Czech Republic f3952e38-6433-4473-9a54-ae6eac8f612 Denmark
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

CQC Certificate:	CN: CQC2014010304744407 / SE: CQC2014010304724379
Declaration of Conformity - CCC:	CN: 2020980304001092 / SE: 2020980304001485
Declaration of Conformity - CE:	2CMT005209
DNV Certificate:	TAE000087N

Container Information

Package Level 1 Width:	263 mm
Package Level 1 Depth / Length:	323 mm
Package Level 1 Height:	454 mm
Package Level 1 Gross Weight:	8.7 kg
Package Level 1 EAN:	7320500501467
Package Level 1 Units:	box 1 piece

External Classifications and Standards

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

Categories

Products > Drives > Softstarters > Softstarters > PSTX Softstarters > PSTX142

Products > Low Voltage Products and Systems > Control Products > Softstarters > Softstarters > PSTX Softstarters > PSTX142

