



PRODUCT-DETAILS

PSTX37-600-70

PSTX37-600-70 Softstarter - 37 A - 208 ... 600 V AC



General Information	
Global Commercial Alias:	PSTX37-600-70
Extended Product Type:	PSTX37-600-70
Product ID:	1SFA898104R7000
ABB Type Designation:	PSTX37-600-70
EAN:	7320500501320
Catalog Description:	PSTX37-600-70 Softstarter - 37 A - 208 ... 600 V AC

Long Description:

The softstarter PSTX37-600-70 has a rated maximum operational current of 37 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:

PSTX37-600-70

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: 9AAC181160_EPLAN

Wiring Diagram: N/A

Dimensions

Product Net Width: 150 mm

Product Net Height: 314 mm

Product Net Depth / Length: 198 mm

Product Net Weight: 4.6 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) 9 kW (400 V) 18.5 kW (500 V) 22 kW
Rated Operational Current - In-Line Connection (Ie):	37 A
Rated Operational Power - Inside Delta Connection:	at 230 V 15 kW at 400 V 30 kW at 500 V 37 kW
Rated Operational Current - Inside Delta Connection:	64 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 s
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:	Cable Clamp
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 8 N·m
Product Main Type:	PSTX37

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 10 Hp (220 ... 240 V AC) Three Phase 10 Hp (440 ... 480 V AC) Three Phase 25 Hp (550 ... 600 V AC) Three Phase 30 Hp
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
Tightening Torque UL/CSA:	Main Circuit 70.8

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:	46ee42b5-0784-4f84-a200-fba43f921301 China
Simplified SCIP:	36faa4d8-1c31-4e13-8c3e-ec35844a8f91 Finland 51bfadcd-200b-4a20-a679-4c2a1b638590 Belgium 52e8ec7d-1d86-4387-9379-694a62306742 Germany 53c720be-bb33-4258-92e4-312515464ca7 Poland 58e2ac5d-d409-4238-b9a7-2ae5551475bc Denmark 6fcba17b-1bd2-475d-bc62-0fde8c050b0f Czechia 702b742e-98be-49f9-840a-cd2479b71d04 Portugal 774f57ef-c4bc-4a95-a78b-f530bbcbdbd Poland 87c6a266-28bd-42dc-a2bf-cb4649e30803 Germany 93cf86d7-5fdb-4420-aa19-1b69782eb00d Poland 970c5387-054d-4abb-8df5-eeecde6540036 Germany a41816b5-d8de-4e19-bf8f-8ae167de5fb0 Spain b0bf4357-3c28-4d52-86b3-bc62c2e72ad5 Netherlands bc76b047-1a12-4e4d-bee7-233363a194bb Sweden c149d8a4-da5c-4cf9-a7bf-469095ba16f3 France c3033721-2a26-4c5c-a4d5-1396c4269264 Greece c38b63e0-09d6-46f3-a73f-ee1cac2db202 Germany c41214ec-cba0-473c-8582-19785586c94e Sweden d37285ad-6c94-45b9-8436-3bb81b3ac0c9 Hungary dfa0d889-a39a-4d1b-84b2-4c65cbc421a2 Germany e6c4b553-4e9e-4454-a272-20d8a78a3ff0 France e8bfbba0-4d36-4faf-9b53-f4d3e2c0aeba Norway f84e1af0-22c0-4613-a4ea-226b3dd3ee0f Bulgaria
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)

ABB EcoSolutions

ABB EcoSolutions:	Yes
ABB Site Meeting Group Waste To Landfill Target:	UL 2799 Zero Waste To Landfill Validation available
EcoSolutions Profile:	1SFC100125C0367
End Of Life Disassembling Instructions:	1SFC132450M0201
Environmental Product Declaration - EPD:	1SFC132444 1SFC132435
Extended Product Lifetime:	Product Durability
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 73.4 %

Certificates and Declarations

CQC Certificate:	CN: CQC2014010304744405 / SE: CQC2014010304724380
Declaration of Conformity - CCC:	CN: 2020980304001091 / SE: 2020980304001489
Declaration of Conformity - CE:	2CMT005209

DNV Certificate:	TAE000087N
EU Data Act Compliance Declaration:	1SFC132498M0201

Container Information

Package Level 1 Width:	200 mm
Package Level 1 Depth / Length:	282 mm
Package Level 1 Height:	388 mm
Package Level 1 Gross Weight:	5.6 kg
Package Level 1 EAN:	7320500501320
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

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
1SFN074307R1000	LW110 Terminal Enlargement	LW110	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

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Products > Low Voltage Products and Systems > Control Products > Softstarters > Softstarters > PSTX Softstarters > PSTX37




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