

PRODUCT-DETAILS

PSTX37-600-70

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



General Information

Long Description

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
	The softstarter PSTX37-600-70 has a rated maximum operational current of 37 A with an operating voltage span from 208600 V AC. The rated control voltage is between 100250 V AC at 50/60 Hz. PSTX features a three-phase control soft start and stop through a voltage or a torgue ramp. It has built-in bypass for easy installation and

que ramp. It has built-in byp 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.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

Popular Downloads	
Data Sheet, Technical Information	1SFC132012C0201
Instructions and Manuals	1SFC132081M0201
CAD Dimensional Drawing	2CDC001079B0201
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

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	Main Circuit 50 / 60 Hz
Rated Operational Power	(230 V) 9 kW
- In-Line Connection (Pe)	(400 V) 18.5 kW
Dated On eventional	(500 V) 22 kW
Rated Operational Current - In-Line	37 A
Connection (le)	
Rated Operational Power	at 230 V 15 kW
- Inside Delta Connection	at 400 V 30 kW at 500 V 37 kW
Rated Operational	64 A
Current - Inside Delta Connection	
Service Factor Percentage	100 %
Overload Protection	Built-in electronic overload protection
Integrated Electronic	Yes
Overload	
Adjustable Rated Motor Current le	30 100 %
Starting Capacity at	4xle for 10s
Maximum Rated Current le	
Ramp Time	1 120 second [unit of time]
Initial Voltage During	10 99 %
Start	10
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	010 V, 020 mA, 420 mA
Signal Indication Ready	Green
to Start/Standby ON (LED)	
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	Hole Diameter 8.5 mm
Main Circuit	
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 8 N·m
Product Main Type	PSTX37
Function	Auto phase sequence detection
	Automatic restart Current limit
	Current limit Current limit ramp

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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

Material Compliance

Conflict Minerals Reporting Template (CMRT)

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Operation -25 ... +60 °C

Storage -40 ... +70 °C

9AKK108467A5658

REACH Declaration	2CMT2022-006481
RoHS Information	2CMT2022-006500
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
SCIP	46ee42b5-0784-4f84-a200-fba43f921301 China (CN)
Toxic Substances	2CMT2023-006524
Control Act - TSCA	
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

CQC Certificate	CN: CQC2014010304744405 / SE: CQC2014010304724380
Declaration of Conformity - CCC	CN: 2020980304001091 / SE: 2020980304001489
Declaration of Conformity - CE	2CMT005209
DNV Certificate	TAE000087N

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

Classifications		
Object Classification 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 Code (IGCC)	4740 >> Soft starter	

Accessories

Unit Of Measure	Juantity	Type Q	Description	Identifier
piece	1	LW110	LW110 Terminal Enlargement	1SFN074307R1000
piece	1	PSCA-1	PSCA-1 USB cable	1SFA899314R1001
piece	1	AB-PROFIBUS- 1	AB-PROFIBUS-1 Communication Module	1SFA899300R1001
piece	1	AB- DEVICENET-1	AB-DEVICENET-1 Communication Module	1SFA899300R1002
piece	1	AB-MODBUS- RTU-1	AB-MODBUS-RTU-1 Communication Module	1SFA899300R1003
piece	1	AB-ETHERNET -IP-2	AB-ETHERNET-IP-2 Communication Module	1SFA899300R1006
piece	1	AB-MODBUS- TCP-2	AB-MODBUS-TCP-2 Communication Module	1SFA899300R1008
piece	1	AB-PROFINET- IO-2	AB-PROFINET-IO-2 Communication Module	1SFA899300R1010
piece	1	AB-BACNET- MSTP-1	AB-BACNET-MSTP-1 Communication Module	1SFA899300R1011
piece	1	AB-ETHERCAT -IP-2	AB-ETHERCAT-IP-2 Communication Module	1SFA899300R1012
piece	1	DX111-FBP.0	DX111-FBP.0 IO-Module for UMC100 DI 24 VDC, supply 24VDC	1SAJ611000R0101
piece	1	DX122-FBP.0	DX122-FBP.0 IO-Module for UMC100 DI 110/230VAC, supply 24VDC	1SAJ622000R0101
piece	1	PS-FBPA	PS-FBPA Fieldbus plug kit	1SFA896312R1002

Categories

 $\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{PSTX} \ \mathsf{Softstarters} \to \mathsf{PSTX37}$

 $\mathsf{Low}\ \mathsf{Voltage}\ \mathsf{Products}\ \mathsf{and}\ \mathsf{Systems}\ \to\ \mathsf{Control}\ \mathsf{Products}\ \to\ \mathsf{Softstarters}\ \to\ \mathsf{PSTX}\ \mathsf{Softstarters}\ \to\ \mathsf{Softsta$





