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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,

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Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	8537109 ⁻
Popular Downloads	
Data Sheet, Technical Information	1SFC132012C020
Instructions and Manuals	1SFC132081M020
CAD Dimensional Drawing	2CDC001079B020 ⁻
Wiring Diagram	N/A
Dimensions	
Product Net Width	150 mm
Product Net Height	314 mm
Product Net Depth / Length	198 mn
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 H: Main Circuit 50 / 60 H:
Rated Operational Power - In-Line Connection (Pe)	(230 V) 9 kV (400 V) 18.5 kV (500 V) 22 kV
Rated Operational Current - In-Line Connection (Ie)	37 A
Rated Operational Power	at 230 V 15 kW
- Inside Delta Connection	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
Adjustable Rated Motor Current le	30 100 %
Starting Capacity at Maximum Rated Current le	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 xlo
Switch for Inside Delta Connection	Ye
Run Signal Relay	Ye:
By-pass Signal Relay	Ye:

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ault Signal Relay	Yes
Overload Signal Relay	Yes
Analog Outputs 010 V, 020 m	nA, 420 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 Profibus; Profinet; BACnet-IP; BA	
Degree of Protection	IP00
Ferminal Type	Cable Clamp
Connecting Capacity Main Hole Diam Circuit	eter 8.5 mm
Connecting Capacity Rigid Control Circuit	1 x 2.5 mm²
Connecting Capacity Rigid Supply Circuit	1 x 2.5 mm²
Tightening Torque Main C	Circuit 8 N·m
Product Main Type	PSTX37
	ce detection matic restart Current limit nt limit ramp
Dual	current limit namic brake
Electric Electronic overload	city metering
	gency mode
Eull	Event log voltage start
Jog with slow speed, forward	
	Kick start rs is shorted lotor heating start function
Pu	mp cleaning al time clock
	quence start
Soft start with to Soft start with v Soft stop with to Soft stop with v	voltage ramp orque control voltage ramp
Start reverse (external Thyristor runtime m	neasurement
	Torque limit gs detection
Protection Function Bypass open protection; Current imbalance protection; Current protection; Dual overload (separate overload for start and run) protection / ground fault protection; Electronic overload prote Extension IO failure protection; Fieldbus failure protection; protection; Locked rotor protection; Max number of starts/hour; C protection; Phase reversal protection; Power factor underload protection; PTC connection; Too long current limit protection start time protection; Under voltage protection; User defined protections.	t underload t; Earth fault ection, EOL; HMI failure Over voltage otection; PT- on; Too long
	ce protection
Varning Details Current imbalance warning; Current underload warning; Electror Time-to-trip; EOL warning; Faulty fan warning; Locked rotor war runtime limit warning; Over voltage warning; Phase loss warning (for Power factor underload warning; Short circuit warning (for Limp moc - Total Harmonic Distortion warning; Thyristor overload warning (S voltage warning; Voltage imbala	rning; Motor or standby); de); THD(U) SCR); Under

Technical UL/CSA

Maximum Operating Main Circuit 600 V

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Voltage UL	/CSA
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Tightening Torque	Main Circuit 70.8
LIL/CSA	

Environmental

Ambient Air Temperature	Operation -25 +60 °C
	Storage -40 +70 °C

Degree of Protection IP00

Material Compliance

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

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

Container Information

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	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

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Unit Of Measure	Quantity	Туре	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

 $\begin{array}{l} \mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{Softstarters} \to \mathsf{PSTX} \, \mathsf{Softstarters} \to \mathsf{PSTX37} \\ \mathsf{Low} \, \mathsf{Voltage} \, \mathsf{Products} \, \to \mathsf{Control} \, \mathsf{Products} \to \mathsf{Softstarters} \to \mathsf{PSTX} \, \mathsf{Softstarters} \\ \end{array}$





