PRODUCT-DETAILS

PSTX470-600-70

PSTX470-600-70 Softstarter - 470 A - 208 ... 600 V AC



Submitted by TECO Group

General Information

Global Commercial Alias	PSTX470-600-70
Extended Product Type	PSTX470-600-70
Product ID	1SFA898116R7000
ABB Type Designation	PSTX470-600-70
EAN	7320500508954
Catalog Description	PSTX470-600-70 Softstarter - 470 A - 208 ... 600 V AC
Long Description	The softstarter PSTX470-600-70 has a rated maximum operational current of 470 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.

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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	9AAC184489_EPLAN
Wiring Diagram	N/A

Dimensions

Product Net Width	361 mm
Product Net Height	493 mm
Product Net Depth / Length	282 mm
Product Net Weight	25 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) 132 kW (400 V) 250 kW (500 V) 315 kW
Rated Operational Current - In-Line Connection (Ie)	470 A
Rated Operational Power - Inside Delta Connection	at 230 V 250 kW at 400 V 450 kW at 500 V 600 kW
Rated Operational Current - Inside Delta Connection	814 A
Service Factor Percentage	100 %
Overload Protection	Built-in electronic overload protection
Integrated Electronic Overload	Yes
Starting Capacity at Maximum Rated Current Ie	4xIe for 10s
Ramp Time	1 ... 120 second [unit of time]
Initial Voltage During Start	10 ... 99 %
Step Down Voltage Special Ramp	100 ... 10 %
Switch for Inside Delta Connection	Yes
Run Signal Relay	Yes

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By-pass Signal Relay	Yes
Fault Signal Relay	Yes
Overload Signal Relay	Yes
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 mm²
Connecting Capacity Supply Circuit	Rigid 1 x 2.5
Tightening Torque	Main Circuit 35 N·m
Product Main Type	PSTX470
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

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Technical UL/CSA

Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 150 Hp (220 ... 240 V AC) Three Phase 200 Hp

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	(440 ... 480 V AC) Three Phase 400 Hp (550 ... 600 V AC) Three Phase 500 Hp
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Tightening Torque UL/CSA	Main Circuit 309.8

Environmental

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

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: CQC2015010304806588 / SE: CQC2015010304797766
Declaration of Conformity - CCC	CN: 2020980304001094 / SE: 2020980304001859
Declaration of Conformity - CE	2CMT005209
DNV Certificate	TAE000087N

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Container Information

Package Level 1 Width	470 mm
Package Level 1 Depth / Length	381 mm
Package Level 1 Height	650 mm
Package Level 1 Gross Weight	29 kg
Package Level 1 EAN	7320500508954
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

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Identifier	Description	Type	Quantity	Unit Of Measure
1SDA013922R1	KIT FC CuAl 2x240mm2 T6 630-S6 630 6pcs	KIT FC CuAl 2x240mm2 T6 630-S6 630 6pcs	1	piece
1SDA023380R1	KIT FC CuAl 2x240mm2 T6 630-S6 630 3pcs	KIT FC CuAl 2x240mm2 T6 630-S6 630 3pcs	1	piece
1SFN075710R1000	LX460 Terminal Extension	LX460	1	piece
1SFN075707R1000	LW460 Terminal Enlargement	LW460	1	piece
1SFN125701R1000	LT460-AC Terminal shroud	LT460-AC	1	piece
1SFN125703R1000	LT460-AL Terminal shroud	LT460-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
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

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Categories

Drives → Softstarters → Softstarters → PSTX Softstarters → PSTX470

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSTX Softstarters → PSTX470





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