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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

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

Long Description

EAN

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,

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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 Width Product Net Height	377 mm
Product Net Depth / Length	283 mm
Product Net Weight	7 kg
	44
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 (le)	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 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 xle
Switch for Inside Delta Connection	Yes

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Run Signal Relay	Yes
By-pass Signal Relay	Yes
Fault Signal Relay	Yes Yes
Overload Signal Relay	Yes O 40 V 0 90 A 4 90 A
Analog Outputs	010 V, 020 mA, 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; 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 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; 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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(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
Main Circuit 600 V
Main Circuit 123.9
Operation -25 +60 °C Storage -40 +70 °C
9AKK108467A5658
2CMT2022-006481
2CMT2022-006500
Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
26f21088-b8bb-4914-b092-1fc09456661d China
0ab76afe-9586-406c-b1d9-3f72d29c6360 Netherlands 117db3bc-26f8-486b-9661-9213c47e0dce Germany 13efe971-0aef-4a3e-b200-9388f7b13699 Sweden 14290cdf-4981-4228-ac25-fbf6ff6bede1 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 98705313-f7c3-4ad9-bc8e-c866590c7b4c Germany a46c12be-e940-4ade-9322-97a2ddebbaed Portugal a7d57835-a734-4c2d-9f77-81733f7491bf Hungary ced2cf36-a96f-4b81-ac85-517042ee7ef1 Germany

Toxic Substances Control
Act - TSCA
WEEE B2C / B2B

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-aee6eac8f612 Denmark

2CMT2023-006524
Act - TSCA

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

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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

 $Drives \rightarrow Softstarters \rightarrow Softstarters \rightarrow PSTX \ Softstarters \rightarrow PSTX 142 \\ Low \ Voltage \ Products \ and \ Systems \rightarrow Control \ Products \rightarrow Softstarters \rightarrow PSTX \ Softstarters \rightarrow PSTX 142 \\ Low \ Voltage \ Products \ and \ Systems \rightarrow Control \ Products \rightarrow Softstarters \rightarrow PSTX \ Softstarters$





