

PRODUCT-DETAILS

PSTX30-690-70 PSTX30-690-70 Softstarter - 30 A - 208 ... 690 V AC



General Information

Global Commercial Alias	PSTX30-690-70
Extended Product Type	PSTX30-690-70
Product ID	1SFA898203R7000
ABB Type Designation	PSTX30-690-70
EAN	7320500501382
Catalog Description	PSTX30-690-70 Softstarter - 30 A - 208 690 V AC

Long Description

The softstarter PSTX30-690-70 has a rated maximum operational current of 30 A with an operating voltage span from 208...690 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 largesized 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	208 690 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) 7.5 kW (400 V) 15 kW (500 V) 18.5 kW (690 V) 25 kW
Rated Operational Current - In-Line Connection (Ie)	30 A
Rated Operational Power - Inside Delta Connection	at 230 V 12.5 kW at 400 V 25 kW at 500 V 30 kW at 690 V 45 kW
Rated Operational Current - Inside Delta Connection	52 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	4xle for 10s

Maximum Rated Current le	
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
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 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	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 mm ²
Tightening Torque	Main Circuit 8 N·m
Product Main Type	PSTX30
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 PSTX30-690-70 4

Start reverse (extending Thyristor runtimes and the start and protection Function Protection Function Bypass open protection; Current imbalance protection; Current imbalance protection; Current imbalance protection; Dual overload (separate overload for start and protection / ground fault protection; Electronic overload protection; Locked rotor protection; Max number of starts/hou protection; Phase reversal protection; Max number of starts/hou protection; Phase reversal protection; Too long current limit protestart time protection; Under voltage protection; User defined protection; Under voltage protection; User defined protection; Under voltage protection; User defined protection; Under voltage warning; Current underload warning; Electronic Under voltage warning; Power factor underload warning; Short circuit warning; for Limp - Total Harmonic Distortion warning; Thyristor overload warning - Total Harmonic Distortion warning; Thyristor overload warning voltage warning; Voltage im Voltage UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Operating Voltage University Ambient Air Temperature Operating Voltage UL/CSA	me measurement Torque lim ge sags detection urrent underload run); Earth fault protection, EOL: ction; HMI failure our; Over voltage and protection; PT tection; Too long otection; Voltage alance protection ectronic overload running; Motoring (for standby); o mode); THD(Ung (SCR); Under
Protection Function Bypass open protection; Current imbalance protection; Electronic overload protection; Journal fault protection; Electronic overload protection; Decedent of protection; Max number of starts-thon protection; Phase reversal protection; Power factor underload 100 connection; PTC connection; Too long current limit protestart time protection; Under voltage protection; User defined prombs Warning Details Current imbalance warning; Current underload warning; Elect Time-to-trip; EOL warning; Faulty fan warning; Locked rotor runtime limit warning; Over voltage varning; Phase loss warning Power factor underload warning; Short circuit warning (for Limp - Total Harmonic Distortion warning; Thyristor overload warning voltage warning; Voltage im Technical UL/CSA Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Operating Storas Degree of Protection	Torque lim ge sags detection urrent underload I run); Earth fault protection, EOL; tition; HMI failure our; Over voltage and protection; PT tection; Too long otection; Voltage alance protection ectronic overload or warning; Motor ng (for standby); o mode); THD(U ng (SCR); Under
Protection Function Bypass open protection; Current imbalance protection; Flectronic overload protection; Default protection; Flectronic overload protection; Default protection; Flectronic overload protection; Phase reversal protection; Power factor underload 100 connection; PTC connection; Do long current limit protestart time protection; Under voltage protection; User defined protection; Default protection; User defined protection; User defined protection; EQU warning; Current underload warning; Electrine; EQU warning; Faulty fan warning; Locked rotor runtime limit warning; Over voltage warning; Phase loss warning Power factor underload warning; Short circuit warning (for Limp - Total Harmonic Distortion warning; Thyristor overload warning - Total Harmonic Distortion warning; Thyristor overload warning voltage warning; Voltage im Technical UL/CSA Maximum Operating Voltage UL/CSA Maximum Operating Voltage UL/CSA Environmental Ambient Air Temperature Operating Storas Degree of Protection	urrent underload I run); Earth fault protection, EOL; stion; HMI failure our; Over voltage and protection; PT tection; Too long otection; Voltage alance protection extronic overload or warning; Motor ing (for standby); o mode); THD(U ing (SCR); Under inbalance warning
protection; Dual overload (separate overload for start and protection / ground fault protection; Electronic overload protection / ground fault protection; Electronic overload protection; Locked rotor protection; Max number of starts/hou protection; Phase reversal protection; Power factor underload 100 connection; PTC connection; Power factor underload 100 connection; PTC connection; User defined protection; Under voltage protection; User defined protection; Under voltage warning; Electronic Underload warning; Electronic Underload warning; Electronic Underload warning; Power factor underload warning; Short circuit warning (for Limp - Total Harmonic Distortion warning; Thyristor overload warning - Total Harmonic Distortion warning; Thyristor overload warning voltage warning; Voltage imit voltage warning; Voltage imit voltage UL/CSA Technical UL/CSA Maximum Operating M. M. Warning Torque UL/CSA Environmental Ambient Air Temperature Operation Storage of Protection	run); Earth fault protection, EOL; stion; HMI failure sur; Over voltage ad protection; PT tection; Too long otection; Voltage alance protection extronic overload r warning; Motor ing (for standby); o mode); THD(U ing (SCR); Under shalance warning
Time-to-trip; EOL warning; Faulty fan warning; Locked rotor runtime limit warning; Over voltage warning; Phase loss warning Power factor underload warning; Short circuit warning (for Limp - Total Harmonic Distortion warning; Thyristor overload warning voltage warning; Voltage imit voltage warning; Voltage imit voltage warning; Voltage imit voltage UL/CSA Maximum Operating Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Operating Storage of Protection	r warning; Motor ng (for standby); o mode); THD(U ng (SCR); Under nbalance warning
Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Operating Storage Degree of Protection	ain Circuit 600 \
Voltage UL/CSA Tightening Torque UL/CSA Environmental Ambient Air Temperature Operating Storage Degree of Protection	lain Circuit 600 \
Environmental Ambient Air Temperature Operation Degree of Protection	all Circuit 090
Ambient Air Temperature Operation Storage Degree of Protection	Main Circuit 70.
Degree of Protection	
•	ion -25 +60 °0 age -40 +70 °0
RoHS Status Following FILI Directive 2002/95/FC August 18, 2005	IP0
Tollowing Lo Bricelive 2002/30/Lo Naguar 10, 2000	and amendmen
Certificates and Declarations	
CQC Certificate CN: CQC2014010304744405 / SE: CQC201	1401030472438
Declaration of Conformity CN: 2020980304001091 / SE: 202 - CCC	2098030400148
Declaration of Conformity - CE	2CMT005209
Container Information	
Package Level 1 Width	200 mr

Package Level 1 Depth /

Package Level 1 Height

Package Level 1 Gross

Package Level 1 EAN

Package Level 1 Units

Length

Weight

282 mm

388 mm

5.6 kg

7320500501382

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	

Categories

 $\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{Softstarters} \to \mathsf{PSTX} \ \mathsf{Softstarters} \to \mathsf{PSTX30}$

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Softstarters\ \rightarrow\ PSTX\ Softstarters\ \rightarrow\ PSTX\ 30$





