

PRODUCT-DETAILS

PSTX720-690-70 PSTX720-690-70 Softstarter - 720 A - 208 ... 690 V AC



General Information	
Global Commercial Alias	PSTX720-690-70
Extended Product Type	PSTX720-690-70
Product ID	1SFA898218R7000
ABB Type Designation	PSTX720-690-70
EAN	7320500510407
Catalog Description	PSTX720-690-70 Softstarter - 720 A - 208 690 V AC
Long Description	The softstarter PSTX720-690-70 has a rated maximum operational current of 720 A with an operating voltage span from 208690 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 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 301250 A inline connection or 522160 A inside delta connection. Typical applications are, for example, pumps, fans, compressors, and convevors.

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Ordering	
Minimum Order Quantity	1 piec
Customs Tariff Number	8537109
Popular Downloads	
Data Sheet, Technical Information	1SFC132012C020
Instructions and Manuals	1SFC132081M020
CAD Dimensional	2CDC001079B020
Drawing Wiring Diagram	N/
Dimensions	
Product Net Width	435 mr
Product Net Height	493 mr 369 mr
Product Net Depth / Length	369 mi
Product Net Weight	46.5 k
Technical	
Rated Operational Voltage	208 690 V A
Rated Control Supply Voltage (U _s)	100 250 V A
Rated Control Circuit Voltage (U _c)	24 V D
Rated Frequency (f)	50/60 H Main Circuit 50 / 60 H
Rated Operational Power	(230 V) 200 kV
- In-Line Connection (Pe)	(400 V) 400 kV (500 V) 500 kV
	(690 V) 710 kV
Rated Operational Current - In-Line Connection (Ie)	720 .
Rated Operational Power - Inside Delta Connection	at 230 V 355 kV
- Inside Delta Connection	at 400 V 710 kV at 500 V 880 kV
Rated Operational Current	at 690 V 1200 kv 1247
- Inside Delta Connection	
Service Factor Percentage	100 9
Overload Protection	Built-in electronic overload protectio
Integrated Electronic Overload	Ye
Adjustable Rated Motor Current le	30 100 ^o
Starting Capacity at Maximum Rated Current le	4xle for 10
Ramp Time	1 120 second [unit of time
Initial Voltage During Start	10 99 9
Step Down Voltage Special Ramp	100 10
Current Limit Function	1.5 7.5 x
Switch for Inside Delta Connection	Ye
Run Signal Relay	Ye

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al Relay	Ye
Relay	Ye
nal Relay	Ye
	10 V, 020 mA, 420 mA
tion Ready to / ON (LED)	Gree
tion Running	Gree
tion ED)	Yellov
tion Fault	Red
on Modbus-RTU; Modbus-TCP; Ethernet-IP; EtherC/ Profibus; Profinet; E	AT; DeviceNet; CANopen; BACnet-IP; BACnet-MSTF
ptection	IP00
e	Main Circuit: Bar
capacity it	Rigid 1 x 2.5 mm
Capacity t	Rigid 1 x 2.5 mm
orque	Main Circuit 45 N·n
Туре	PSTX72
Auto p Electro Jog with slow s Limp mode with two-phase motor control if one S S S S S Start rev	phase sequence detection Automatic restar Current limit ram Dual current limi Dynamic brakk Electricity metering onic overload Time-to-coc Emergency mode Event log Full voltage star peed, forward and reverse Keypad password Kick star
nction Bypass open protection; Current imbalance prot protection; Dual overload (separate overload for protection / ground fault protection; Electronic Extension IO failure protection; Fieldbus fail protection; Locked rotor protection; Max number of protection; Phase reversal protection; Power factor 100 connection; PTC connection; Too long current start time protection; Under voltage protection; User d	start and run); Earth fault overload protection, EOL; ure protection; HMI failure f starts/hour; Over voltage underload protection; PT t limit protection; Too long
ails Current imbalance warning; Current underload wa Time-to-trip; EOL warning; Faulty fan warning; Lo runtime limit warning; Over voltage warning; Phase lu Power factor underload warning; Short circuit warning - Total Harmonic Distortion warning; V voltage warning; V	ocked rotor warning; Moto oss warning (for standby) g (for Limp mode); THD(U

Main Circuit 690 V

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Tightening	Torque	

Main Circuit 398.3

Environmental		
Ambient Air Temperature	Operation -25 +60 °C Storage -40 +70 °C	
Degree of Protection	IPOC	
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: CQC2015010304830300 / SE: CQC2015010304830295	
Declaration of Conformity	CNI 2020080304001005 / SEI 2020080304001401	

CQC Certificate	CN: CQC2015010304830300 / SE: CQC2015010304830295
Declaration of Conformity - CCC	CN: 2020980304001095 / SE: 2020980304001491
Declaration of Conformity <u>- CE</u>	2CMT005209

Container Information	
Package Level 1 Width	600 mm
Package Level 1 Depth / Length	616 mm
Package Level 1 Height	800 mm
Package Level 1 Gross Weight	58.5 kg
Package Level 1 EAN	7320500510407
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

Identifier	Description	Туре	Quantity	Unit Of Measure
1SDA013956R1	KIT FC CuAl 3x185mm2 T6 800-S6 800 6pcs	KIT FC CuAl 3x185mm2 T6 800-S6 800 6pcs	1	piece
1SDA023380R1	KIT FC CuAI 2x240mm2 T6 630-S6 630 3pcs	KIT FC CuAl 2x240mm2 T6 630-S6 630 3pcs	1	piece
1SFN076107R1000	LW750 Terminal Enlargement	LW750	1	piece
1SFN126101R1000	LT750-AC Terminal shroud	LT750-AC	1	piece
1SFN126103R1000	LT750-AL Terminal shroud	LT750-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
1SAJ611000R0101	DX111-FBP.0 IO-Module for UMC100 DI 24 VDC, supply 24VDC	DX111-FBP.0	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

Categories

 $\label{eq:point} \begin{aligned} &\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{PSTX} \ \mathsf{Softstarters} \to \mathsf{PSTX720} \\ &\mathsf{Low} \ \mathsf{Voltage} \ \mathsf{Products} \ \mathsf{and} \ \mathsf{Systems} \to \mathsf{Control} \ \mathsf{Products} \to \mathsf{Softstarters} \to \mathsf{Softstarters} \to \mathsf{PSTX} \ \mathsf{Softstarters} \to \mathsf{PSTX720} \end{aligned}$







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