

PRODUCT-DETAILS

# PSTX1250-690-70

## PSTX1250-690-70 Softstarter - 1250 A - 208 ... 690 V AC



### Informations générales

Alias commercial mondial	PSTX1250-690-70
Extension du type de produit	PSTX1250-690-70
Code de produit	1SFA898221R7000
ABB désignation de type	PSTX1250-690-70
EAN	7320500510483
Description courte	PSTX1250-690-70 Softstarter - 1250 A - 208 ... 690 V AC

### Description longue

The softstarter PSTX1250-690-70 has a rated maximum operational current of 1250 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 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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## Commande

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Quantité minimum	1 pièce
Code douanier	85371091

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## Popular Downloads

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Fiche produit, informations techniques	1SFC132012C0201
Instructions et manuels	1SFC132081M0201
CAD Dimensional Drawing	2CDC001079B0201
Wiring Diagram	N/A

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## Dimensions

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Produit Largeur Net	435 mm
Produit Hauteur Net	565 mm
Produit Longueur Net	367 mm
Poids net	63.3 kg

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## Technique

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Tension	208 ... 690 V AC
Rated Control Supply Voltage ( $U_s$ )	100 ... 250 V AC
Rated Control Circuit Voltage ( $U_c$ )	24 V DC
Fréquence assignée (f)	50/60 Hz Circuit principal 50 / 60 Hz
Rated Operational Power - In-Line Connection ( $P_e$ )	(230 V) 400 kW (400 V) 710 kW (500 V) 880 kW (690 V) 1200 kW
Courant nominal de fonctionnement-- Raccordement en ligne ( $I_e$ )	1250 A
Rated Operational Power - Inside Delta Connection	at 230 V 670 kW at 400 V 1200 kW at 500 V 1500 kW at 690 V 2000 kW
Rated Operational Current - Inside Delta Connection	2160 A
Pourcentage Facteur de service	100 %
Overload Protection	Built-in electronic overload protection
Integrated Electronic Overload	Yes
Adjustable Rated Motor Current $I_e$	30 ... 100 %

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Starting Capacity at Maximum Rated Current I <sub>e</sub>	4xle for 10s
Ramp Time	1 ... 120 second [unit of time]
Initial Voltage During Start	10 ... 99 A
Step Down Voltage Special Ramp	100 ... 10 %
Current Limit Function	1.5 ... 7.5 xle
Switch for Inside Delta Connection	Oui
Run Signal Relay	Oui
By-pass Signal Relay	Yes
Fault Signal Relay	Yes
Overload Signal Relay	Oui
Sorties analogiques	0...10 V, 0...20 mA, 4...20 mA
Signal Indication Ready to Start/Standby ON (LED)	Green
Voyant de signal indiquant 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
Indice de protection	IP00
Type de borne	Main Circuit: Bars
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm <sup>2</sup>
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm <sup>2</sup>
Couple de serrage	Main Circuit 45 N·m
Groupe de produit	PSTX1250
Fonction	<ul style="list-style-type: none"> <li>Auto phase sequence detection</li> <li>Automatic restart</li> <li>Current limit</li> <li>Current limit ramp</li> <li>Dual current limit</li> <li>Dynamic brake</li> <li>Electricity metering</li> <li>Electronic overload Time-to-cool</li> <li>Emergency mode</li> <li>Event log</li> <li>Full voltage start</li> <li>Jog with slow speed, forward and reverse</li> <li>Keypad password</li> <li>Kick start</li> <li>Limp mode with two-phase motor control if one set of thyristors is shorted</li> <li>Motor heating</li> <li>Pre-start function</li> <li>Pump cleaning</li> <li>Real time clock</li> <li>Sequence start</li> <li>Soft start with torque control</li> <li>Soft start with voltage ramp</li> <li>Soft stop with torque control</li> <li>Soft stop with voltage ramp</li> <li>Stand still brake</li> </ul>

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

## Technique UL/CSA

Maximum Operating Voltage UL/CSA	Circuit principal 690 V
Tightening Torque UL/CSA	Main Circuit 398.3

## Environnement

Température de l'air ambiant	Operation -25 ... +60 °C Storage -40 ... +70 °C
Indice de protection	IP00
Statut RoHS	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Certificats et Déclarations (Numéro de document)

CQC Certificate	CN: CQC2015010304830298 / SE: CQC2015010304830294
Declaration of Conformity - CCC	CN: 2020980304001097 / SE: 2020980304001508
Déclaration de Conformité - CE	2CMT005209

## Emballage

Emballage Niveau 1 Largeur	600 mm
Emballage Niveau 1 Longueur	616 mm
Emballage Niveau 1 Hauteur	800 mm
Emballage Niveau 1 Poids	75.3 kg
Emballage Niveau 1 EAN	7320500510483
Emballage Niveau 1 Unités	box 1 pièce

## Classifications

Code de classification d'objet	Q
ETIM 7	EC000640 - Soft starter
ETIM 8	EC000640 - Soft starter
ETIM 9	EC000640 - Soft starter
eClass	V11.0 : 27370907
UNSPSC	39121521
Code de catégorie granulaire IDEA (IGCC)	4740 >> Soft starter

## Accessories

Identifiant	Description	Type	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
1SDA054988R1	KIT FC CuAl 1x185mm2 T4 3pcs	KIT FC CuAl 1x185mm2 T4 3pcs	1	piece
1SDA055020R1	KIT FC CuAl 1x240mm2 T5 400 3pcs	KIT FC CuAl 1x240mm2 T5 400 3pcs	1	piece
1SDA023380R1	KIT FC CuAl 2x240mm2 T6 630-S6 630 3pcs	KIT FC CuAl 2x240mm2 T6 630-S6 630 3pcs	1	piece
1SFN074810R1000	LX205 Terminal Extension	LX205	1	piece
1SFN075410R1000	LX370 Terminal Extension	LX370	1	piece
1SFN075710R1000	LX460 Terminal Extension	LX460	1	piece
1SFN074307R1000	LW110 Terminal Enlargement	LW110	1	piece
1SFN074807R1000	LW205 Terminal Enlargement	LW205	1	piece
1SFN075407R1000	LW370 Terminal Extension	LW370	1	piece
1SFN075707R1000	LW460 Terminal Enlargement	LW460	1	piece
1SFN076107R1000	LW750 Terminal Enlargement	LW750	1	piece
1SFN124801R1000	LT205-30C Terminal Shroud	LT205-30C	1	piece
1SFN124803R1000	LT205-30L Terminal Shroud	LT205-30L	1	piece
1SFN125401R1000	LT370-30C Terminal Shroud	LT370-30C	1	piece
1SFN125403R1000	LT370-30L Terminal Shroud	LT370-30L	1	piece
1SFN125406R1000	LT370-30D Terminal Shroud	LT370-30D	1	piece
1SFN125701R1000	LT460-AC Terminal shroud	LT460-AC	1	piece
1SFN125703R1000	LT460-AL Terminal shroud	LT460-AL	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

## Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Demarres progressifs → Démarres progressifs → PSTX Softstarters → PSTX1250

Variateurs de vitesse → Demarres progressifs → Démarres progressifs → PSTX Softstarters → PSTX1250

