

PRODUCT-DETAILS

# PSTX45-690-70

## PSTX45-690-70 Softstarter - 45 A - 208 ... 690 V AC



### Informations générales

Alias commercial mondial	PSTX45-690-70
Extension du type de produit	PSTX45-690-70
Code de produit	1SFA898205R7000
ABB désignation de type	PSTX45-690-70
EAN	7320500501412
Description courte	PSTX45-690-70 Softstarter - 45 A - 208 ... 690 V AC

Description longue	<p>The softstarter PSTX45-690-70 has a rated maximum operational current of 45 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.</p>
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### Commande

Quantité minimum	1 pièce
Code douanier	85371091

## Downloads Préférés

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

## Dimensions

Produit Largeur Net	150 mm
Produit Hauteur Net	314 mm
Produit Longueur Net	198 mm
Poids net	4.6 kg

## Technique

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) 12.5 kW (400 V) 22 kW (500 V) 25 kW (690 V) 37 kW
Courant nominal de fonctionnement-- Raccordement en ligne ( $I_e$ )	45 A
Rated Operational Power - Inside Delta Connection	at 230 V 25 kW at 400 V 37 kW at 500 V 45 kW at 690 V 59 kW
Rated Operational Current - Inside Delta Connection	76 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 %
Starting Capacity at Maximum Rated Current $I_e$	4xI <sub>e</sub> 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 xI <sub>e</sub>
Switch for Inside Delta	Oui

Connection	
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	Cable Clamp
Connecting Capacity Main Circuit	Hole Diameter 8.5 mm
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 8 N·m
Groupe de produit	PSTX45
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> <li>Start reverse (external contactors)</li> <li>Thyristor runtime measurement</li> <li>Torque limit</li> <li>Voltage sags detection</li> </ul>
Protection Function	<ul style="list-style-type: none"> <li>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</li> </ul>
Warning Details	<ul style="list-style-type: none"> <li>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</li> </ul>

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## Technique UL/CSA

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Maximum Operating Voltage UL/CSA	Circuit principal 690 V
Tightening Torque UL/CSA	Main Circuit 70.8

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## Environnement

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Température de l'air ambiant	Operation -25 ... +60 °C Storage -40 ... +70 °C
Indice de protection	IP00
Informations RoHS	2CMT005210
Statut RoHS	Following EU Directive 2002/95/EC August 18, 2005 and amendment

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## Certificats et Déclarations (Numéro de document)

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CQC Certificate	CN: CQC2014010304744405 / SE: CQC2014010304724380
Declaration of Conformity - CCC	CN: 2020980304001091 / SE: 2020980304001489
Déclaration de Conformité - CE	2CMT005209

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## Emballage

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Emballage Niveau 1 Largeur	200 mm
Emballage Niveau 1 Longueur	282 mm
Emballage Niveau 1 Hauteur	388 mm
Emballage Niveau 1 Poids	5.6 kg
Emballage Niveau 1 EAN	7320500501412
Emballage Niveau 1 Unités	box 1 pièce

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## Classifications

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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

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## Catégories

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Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Démarreurs progressifs → Démarreurs progressifs → PSTX Softstarters → PSTX45

Variateurs de vitesse → Démarreurs progressifs → Démarreurs progressifs → PSTX Softstarters → PSTX45

