

PRODUCT-DETAILS

PSTX840-690-70

PSTX840-690-70 Softstarter - 840 A - 208 ... 690 V AC



Informations générales

| | |
|------------------------------|---|
| Alias commercial mondial | PSTX840-690-70 |
| Extension du type de produit | PSTX840-690-70 |
| Code de produit | 1SFA898219R7000 |
| ABB désignation de type | PSTX840-690-70 |
| EAN | 7320500510414 |
| Description courte | PSTX840-690-70 Softstarter - 840 A - 208 ... 690 V AC |

| | |
|--------------------|--|
| Description longue | <p>The softstarter PSTX840-690-70 has a rated maximum operational current of 840 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> |
|--------------------|--|

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 | 435 mm |
| Produit Hauteur Net | 493 mm |
| Produit Longueur Net | 369 mm |
| Poids net | 46.5 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) 250 kW (400 V) 450 kW (500 V) 600 kW (690 V) 800 kW |
| Courant nominal de fonctionnement-- Raccordement en ligne (I_e) | 840 A |
| Rated Operational Power - Inside Delta Connection | at 230 V 450 kW at 400 V 800 kW at 500 V 1000 kW at 690 V 1400 kW |
| Rated Operational Current - Inside Delta Connection | 1455 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 | 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 | 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 | Main Circuit: Bars |
| Connecting Capacity Control Circuit | Rigid 1 x 2.5 mm ² |
| Connecting Capacity Supply Circuit | Rigid 1 x 2.5 mm ² |
| Couple de serrage | Main Circuit 45 N·m |
| Groupe de produit | PSTX840 |
| Fonction | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 |
| Informations RoHS | 2CMT005210 |
| Statut RoHS | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Certificats et Déclarations (Numéro de document)

| | |
|---------------------------------|---|
| CQC Certificate | CN: CQC2015010304830300 / SE: CQC2015010304830295 |
| Declaration of Conformity - CCC | CN: 2020980304001095 / SE: 2020980304001491 |
| 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 | 58.5 kg |
| Emballage Niveau 1 EAN | 7320500510414 |
| 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

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|--|--|----------|-----------------|
| 1SDA013956R1 | KIT FC CuAI 3x185mm2 T6 800-S6 800 6pcs | KIT FC CuAI 3x185mm2 T6 800-S6 800 6pcs | 1 | piece |
| 1SDA054988R1 | KIT FC CuAI 1x185mm2 T4 3pcs | KIT FC CuAI 1x185mm2 T4 3pcs | 1 | piece |
| 1SDA055020R1 | KIT FC CuAI 1x240mm2 T5 400 3pcs | KIT FC CuAI 1x240mm2 T5 400 3pcs | 1 | piece |
| 1SDA023380R1 | KIT FC CuAI 2x240mm2 T6 630-S6 630 3pcs | KIT FC CuAI 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 → Démarreurs progressifs → Démarreurs progressifs → PSTX Softstarters → PSTX840

Variateurs de vitesse → Démarreurs progressifs → Démarreurs progressifs → PSTX Softstarters → PSTX840

