



PRODUCT-DETAILS

PSTX105-600-70

PSTX105-600-70 Softstarter - 105 A - 208 ...
600 V AC



genel Bilgi

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| Küresel Ticari Takma Ad | PSTX105-600-70 |
| Geniřletilmiş Ürün Türü | PSTX105-600-70 |
| Ürün Kimlięi | 1SFA898109R7000 |
| ABB Tür Tanımı | PSTX105-600-70 |
| EAN | 7320500501313 |
| Katalog Açıklaması | PSTX105-600-70 Softstarter - 105 A - 208 ... 600 V AC |

Uzun Açıklama

The softstarter PSTX105-600-70 has a rated maximum operational current of 105 A with an operating voltage span from 208...600 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.

Ordering

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| Minimum Sipariş Miktarı | 1 piece |
| Gümrük Tarifesi numarası | 85371091 |

Popular Downloads

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| Veri Sayfası, Teknik Bilgi | 1SFC132012C0201 |
| Talimatlar ve Kılavuzlar | 1SFC132428M0201 |
| Talimatlar ve Kılavuzlar (Bölüm 2) | 1SFC132081M0201 |
| Instructions and Manuals (Part 3) | 1SFC132060M0201 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Wiring Diagram | N/A |

Dimensions

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| Ürün Net Geniřlięi | 150 mm |
| Ürün Net Yükseklięi | 314 mm |
| Ürün Net Derinlik / Uzunluk | 198 mm |
| Ürün Net Aęırlięi | 4.7 kg |

Technical

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| Nominal Çalışma Gerilimi | 208 ... 600 V AC |
| Rated Control Supply Voltage (U _s) | 100 ... 250 V AC |

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| Rated Control Circuit Voltage (U _c) | 24 V DC |
| Nominal Frekans (f) | 50/60 Hz Main Circuit 50 / 60 Hz |
| Rated Operational Power - In-Line Connection (Pe) | (230 V) 30 kW (400 V) 55 kW (500 V) 75 kW |
| Nominal Çalışma Akımı - Hat İçi Bağlantı (Ie) | 105 A |
| Rated Operational Power - Inside Delta Connection | at 230 V 55 kW at 400 V 90 kW at 500 V 110 kW |
| Rated Operational Current - Inside Delta Connection | 181 A |
| Hizmet Faktörü Yüzdesi | 100 % |
| Overload Protection | Built-in electronic overload protection |
| Integrated Electronic Overload | Yes |
| Starting Capacity at Maximum Rated Current Ie | 4xIe 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 xIe |
| Switch for Inside Delta Connection | Yes |
| Run Signal Relay | Yes |
| By-pass Signal Relay | Yes |
| Fault Signal Relay | Yes |
| Overload Signal Relay | Yes |
| Analog Çıkışlar | 0...10 V, 0...20 mA, 4...20 mA |
| Signal Indication Ready to Start/Standby ON (LED) | Green |
| Sinyal göstergesi çalışıyor R (LED) | Green |
| Signal Indication Protection (LED) | Yellow |
| Signal Indication Fault (LED) | Red |
| İletişim | Modbus-RTU; Modbus-TCP; Ethernet-IP; EtherCAT; DeviceNet; CANopen; Profibus; Profinet; BACnet-IP; BACnet-MSTP |
| Koruma Derecesi | acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 |
| Terminal Türü | 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 |
| Sıkma Torku | Main Circuit 8 N-m |
| Ürün Ana Türü | PSTX105 |
| 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
- Stand still brake
- Start reverse (external contactors)
- Thyristor runtime measurement
 - Torque limit
 - Voltage sags detection

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| 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 |

Technical UL/CSA

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| Beygir Gücü Anma UL/CSA | (200 ... 208 V AC) Three Phase 30 Hp (220 ... 240 V AC) Three Phase 40 Hp (440 ... 480 V AC) Three Phase 75 Hp (550 ... 600 V AC) Three Phase 100 Hp |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| Tightening Torque UL/CSA | Main Circuit 70.8 |

Environmental

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| Ortam Hava Sıcaklığı | Operation -25 ... +60 °C Storage -40 ... +70 °C |
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Material Compliance

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| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2022-006481 |

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| RoHS Bilgileri | 2CMT2022-006500 |
| RoHS Durumu | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| SCIP | f3a0566c-5aad-4ac9-94d0-4c2d5492623c China (CN) |
| Toxic Substances Control Act - TSCA | 2CMT2023-006524 |
| AEEE B2C / B2B | Business To Business |
| AEEE Kategorisi | 5. Small Equipment (No External Dimension More Than 50 cm) |

Certificates and Declarations

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| CQC Certificate | CN: CQC2014010304744405 / SE: CQC2014010304724380 |
| Declaration of Conformity - CCC | CN: 2020980304001091 / SE: 2020980304001489 |
| Uygunluk Beyanı - CE | 2CMT005209 |
| DNV Sertifikası | TAE000087N |

Container Information

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| Paket Düzey 1 Genişlik | 200 mm |
| Paket Seviye 1 Derinlik / Uzunluk | 282 mm |
| Paket Seviye 1 Yükseklik | 388 mm |
| Paket Seviye 1 Brüt Ağırlık | 5.7 kg |
| Paket Düzey 1 EAN | 7320500501313 |
| Paket Seviye 1 Birimler | box 1 piece |

External Classifications and Standards

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|------------------------------------|-------------------------|
| Nesne Sınıflandırma Kodu | Q |
| ETIM 7 | EC000640 - Soft starter |
| ETIM 8 | EC000640 - Soft starter |
| ETIM 9 | EC000640 - Soft starter |
| eSınıf | V11.0 : 27370907 |
| UNSPSC | 39121521 |
| IDEA Granüler Kategori Kodu (IGCC) | 4740 >> Soft starter |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|--|------------------|----------|-----------------|
| 1SFN074307R1000 | LW110 Terminal Enlargement | LW110 | 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 |
| 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 |

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Drives → Softstarters → Softstarters → PSTX Softstarters → PSTX105

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSTX Softstarters → PSTX105

