

PRODUCT-DETAILS

# PSTX142-600-70

## PSTX142-600-70 Softstarter - 142 A - 208 ... 600 V AC



### Información General

Alias comercial global	PSTX142-600-70
Tipo de producto extendido	PSTX142-600-70
Código de producto	1SFA898110R7000
Designación de tipo ABB	PSTX142-600-70
EAN	7320500501467
Descripción corta	PSTX142-600-70 Softstarter - 142 A - 208 ... 600 V AC

Descripción larga	<p>The softstarter PSTX142-600-70 has a rated maximum operational current of 142 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.</p>
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### Clasificación

Cantidad mínima de pedido	1 piece
Código arancelario	85371091

## Descargas Populares

Ficha técnica, información técnica	1SFC132012C0201
Instrucciones y manuales	1SFC132081M0201
Dibujo dimensional CAD	2CDC001079B0201
Diagrama de cableado	N/A

## Dimensiones

Ancho del product	199 mm
Alto del producto	377 mm
Largo del product	283 mm
Peso del product	7 kg

## Technical

Tensión nominal de operación	208 ... 600 V AC
Tensión nominal de alimentación de control (U <sub>s</sub> )	100 ... 250 V AC
Tensión nominal del circuito de control (U <sub>c</sub> )	24 V DC
Frecuencia nominal (f)	50/60 Hz Main Circuit 50 / 60 Hz
Potencia operativa nominal - Conexión en línea (P <sub>e</sub> )	(230 V) 37 kW (400 V) 75 kW (500 V) 90 kW
Corriente nominal de funcionamiento - Conexión en línea (I <sub>e</sub> )	142 A
Potencia operativa nominal - Conexión Delta interior	at 230 V 75 kW at 400 V 132 kW at 500 V 160 kW
Corriente nominal de funcionamiento - Conexión interior en triángulo	245 A
Factor de servicio en porcentaje	100 %
Protección contra sobrecargas	Built-in electronic overload protection
Sobrecarga electrónica integrada	Yes
Corriente nominal ajustable del motor I <sub>e</sub>	30 ... 100 %
Capacidad de arranque a la máxima corriente nominal I <sub>e</sub>	4xI <sub>e</sub> for 10s
Tiempo de rampa	1 ... 120 second [unit of time]
Tensión inicial durante el arranque	10 ... 99 %
Rampa especial de bajada de tensión	100 ... 10 %

Función de límite de corriente	1.5 ... 7.5 xle
Interruptor para la conexión interior del Delta	Yes
Relé de señal de marcha	Yes
Relé de señalización de derivación	Yes
Relé de señalización de averías	Yes
Relé de señal de sobrecarga	Yes
Salidas analógicas	0...10 V, 0...20 mA, 4...20 mA
Indicación de la señal de preparado para el arranque/espera ON (LED)	Green
Indicación de señal en marcha R (LED)	Green
Protección de indicación de señales (LED)	Yellow
Fallo de indicación de la señal (LED)	Red
Comunicación	Modbus-RTU; Modbus-TCP; Ethernet-IP; EtherCAT; DeviceNet; CANopen; Profibus; Profinet; BACnet-IP; BACnet-MSTP
Grado de protección	IP00
Tipo de terminal	Main Circuit: Bars
Capacidad de conexión del circuito principal	Hole Diameter 8.5 mm
Conexión del circuito de control de capacidad	Rigid 1 x 2.5 mm <sup>2</sup>
Conexión del circuito de suministro de capacidad	Rigid 1 x 2.5 mm <sup>2</sup>
Par de apriete	Main Circuit 14 N·m
Tipo de producto principal	PSTX142
Función	<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>
Función de protección	<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</li> </ul>

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

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**Technical UL/CSA**

Tensión máxima de funcionamiento UL/CSA	Main Circuit 600 V
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Par de apriete UL/CSA	Main Circuit 123.9
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**Ambiente**

Temperatura ambiente	Funcionamiento -25 ... +60 °C Almacenamiento -40 ... +70 °C
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Grado de protección	IP00
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Información sobre RoHS	2CMT005210
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Estado de RoHS	Following EU Directive 2002/95/EC August 18, 2005 and amendment
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**Certificados y Declaraciones (Número de Documento)**

Certificado CQC	CN: CQC2014010304744407 / SE: CQC2014010304724379
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Declaración de conformidad - CCC	CN: 2020980304001092 / SE: 2020980304001485
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Declaración de conformidad - CE	2CMT005209
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**Información de Embalaje**

Embalaje Nivel 1 Ancho	263 mm
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Embalaje Nivel 1 Largo	323 mm
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Embalaje Nivel 1 Alto	454 mm
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Embalaje Nivel 1 Peso	8.7 kg
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Embalaje Nivel 1 EAN	7320500501467
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Embalaje Nivel 1 Unidades	box 1 piece
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**Clasificaciones**

Código de clasificación de objetos	Q
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ETIM 7	EC000640 - Soft starter
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ETIM 8	EC000640 - Soft starter
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ETIM 9	EC000640 - Soft starter
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Clase electrónica	V11.0 : 27370907
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UNSPSC	39121521
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Código de categoría granular de IDEA (IGCC)	4740 >> Soft starter
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**Accessories**

Identifier	Description	Type	Quantity	Unit Of Measure
1SDA066917R1	KIT FC Cu XT4 3pcs	KIT FC Cu XT4 3pcs	1	piece
1SFN074709R1000	LZ185-2C/120 Cable Clamp Connector	LZ185-2C/120	1	piece
1SDA055016R1	KIT FC Cu 1x240mm2 T5 400 3pcs	KIT FC Cu 1x240mm2 T5 400 3pcs	1	piece
1SCA022194R0890	OZXB4/1 AL-CU TERMINAL 1PC	OZXB4/1	1	piece
1SDA013922R1	KIT FC CuAl 2x240mm2 T6 630-S6 630 6pcs	KIT FC CuAl 2x240mm2 T6 630-S6 630 6pcs	1	piece
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	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

## Categorías

Convertidores de frecuencia → Softstarters → Arranadores suaves → PSTX Softstarters → PSTX142

Productos y sistemas de baja tensión → Aparatos de control → Softstarters → Arranadores suaves → PSTX Softstarters → PSTX142

