

PRODUCT-DETAILS

# PSE300-600-70-1

## PSE300-600-70-1 Softstarter



### Información General

Global Commercial Alias	PSE300-600-70-1
Tipo de producto extendido	PSE300-600-70-1
Código de producto	1SFA897114R7001
ABB Type Designation	PSE300-600-70-1
EAN	7320500515044
Descripción corta	PSE300-600-70-1 Softstarter

### Descripción larga

The softstarter PSE300-600-70-1 has a rated maximum operational current of 300 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. PSE features a two-phase control with a soft start and stop through a voltage or a torque ramp. It has a built-in bypass for easy installation and energy saving. A RUN, TOR, and Event signal is available from a relay output in NO (normally open state). The PSE has functions such as current limit, kickstart, analog output, EOL, underload, and locked rotor protection. To interact with PSE, it has an illuminated display that uses symbols to become language neutral. As an option, you can add an identical external keypad with a rating of IP66. There are three ways to communicate with PSE. It can be done by hardware inputs Start/Stop or by Reset of fault. Another popular option is the built-in Fieldbus communication Modbus RTU, but we can also use an external adaptor and a Fieldbus plug.

The new generation PSE is a true general purpose softstarter. It's a perfect balance between high starting capacity and cost efficiency. It is now featuring built-in Fieldbus communication. They are suitable for small to medium-sized three-phase motors with nominal currents from 18...370 A. Typical applications are, for example, pumps, fans, compressors, and conveyors.

### Clasificación

Cantidad mínima de pedido	1 piece
Código arancelario	85044090

## Descargas Populares

Ficha técnica, información técnica	1SFC132012C0201
Instrucciones y manuales	1SFC132057M0201

## Dimensiones

Ancho del product	190 mm
Alto del producto	435 mm
Largo del product	237 mm
Peso del product	10.6 kg

## Technical

Rated Operational Voltage	208 ... 600 V AC
Rated Control Supply Voltage ( $U_s$ )	100 ... 250 V AC
Rated Control Circuit Voltage ( $U_c$ )	DC Operation 24 V
Rated Frequency (f)	50/60 Hz Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection ( $P_e$ )	(230 V) 90 kW (400 V) 160 kW (500 V) 200 kW
Rated Operational Current - In-Line Connection ( $I_e$ )	300 A
Service Factor Percentage	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	0 ... 30 second [unit of time] 1 ... 30 second [unit of time]
Initial Voltage During Start	30 ... 70 %
Step Down Voltage Special Ramp	No %
Current Limit Function	1.5 ... 7xI <sub>e</sub>
Switch for Inside Delta Connection	No
Run Signal Relay	Yes
By-pass Signal Relay	Yes
Fault Signal Relay	Yes

Overload Signal Relay	Yes
Analog Outputs	4...20 mA
Signal indication completed start ramp (LED)	Green
Signal indication ready to start/standby ON (LED)	Green
Signal indication running R (LED)	Green
Signal indication ramping up/down (LED)	Green
Signal indication protection (LED)	Yellow
Signal indication fault (LED)	Red
Number of Starts Per Hour at 3.5*Ie for 7 sec. 50% ON Time 50% OFF Time	10
Communication	FiledBusPlug(Optional)
Grado de protección	IP00
Terminal Type	Main Circuit: Bars
Connecting Capacity Main Circuit	Hole Diameter 8.5 mm Rigid 1/2 x 2.5 ... 70 mm <sup>2</sup> Width and Thickness 17.5x5 mm
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm <sup>2</sup> Rigid 2 x 1.5 mm <sup>2</sup>
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm <sup>2</sup>
Tightening Torque	Control Circuit 0.5 N·m Main Circuit 28 N·m Supply Circuit 0.5 N·m
Product Main Type	PSE300

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Ampere Rating UL/CSA	302 A
Tightening Torque UL/CSA	Control Circuit 4.4 in·lb Main Circuit 247.8 Supply Circuit 4.4 in·lb

## Ambiente

Temperatura ambiente	Funcionamiento -25 ... +60 °C Almacenamiento -40 ... +70 °C
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Certificados y Declaraciones (Número de Documento)

CQC Certificate	CQC2018010304109915
Declaration of Conformity - CCC	2020980304001510

Declaración de conformidad - CE	2CMT2015-005447
Environmental Information	1SFC132042D0201
Instrucciones y manuales	1SFC132057M0201
RoHS Information	1SFC132043D0201

## Información de Embalaje

Embalaje Nivel 1 Ancho	261 mm
Embalaje Nivel 1 Largo	325 mm
Embalaje Nivel 1 Alto	510 mm
Embalaje Nivel 1 Peso	13.3 kg
Embalaje Nivel 1 EAN	7320500515044
Embalaje Nivel 1 Unidades	box 1 pieza

## Clasificaciones

Object Classification Code	Q
ETIM 6	EC002572 - Motor management device
UNSPSC	39121521

## Categorías

Convertidores de frecuencia → Softstarters → Arrancadores suaves → PSE Softstarters → PSE300

Productos y sistemas de baja tensión → Aparatos de control → Softstarters → Arrancadores suaves → PSE Softstarters → PSE300

