

PRODUCT-DETAILS

# PSR85-600-70

## PSR85-600-70 Softstarter



### Información General

|                            |                          |
|----------------------------|--------------------------|
| Global Commercial Alias    | PSR85-600-70             |
| Tipo de producto extendido | PSR85-600-70             |
| Código de producto         | 1SFA896114R7000          |
| ABB Type Designation       | PSR85-600-70             |
| EAN                        | 7320500362631            |
| Descripción corta          | PSR85-600-70 Softstarter |

Descripción larga

The softstarter PSR85-600-70 has a rated maximum operational current of 85 A with an operating voltage span from 208...600 V AC. The rated control voltage is between 100...240 V AC at 50/60 Hz. PSR features a two-phase control soft start and stop through a voltage ramp. It has a built-in bypass for easy installation and energy saving. A RUN and a TOR signal is available from a relay output in NO (normally open state). The start/stop ramp and time is easy to set by three potentiometers on the front. PSR is often used in combination with a manual motor starter (MMS) from ABB, so mechanical connection kits are available. Another popular option is Fieldbus communication, which can be enabled by an external adaptor and a Fieldbus plug. The PSR range is our most compact softstarters with basic functionality and values. They are suitable for small three-phase motors with nominal currents from 3...105 A and can manage up to 100 starts per hour. Common applications are, for example, pumps, fans, compressors, and conveyors.

### Clasificación

|                           |          |
|---------------------------|----------|
| Cantidad mínima de pedido | 1 piece  |
| Código arancelario        | 85044090 |

## Descargas Populares

|                                       |                 |
|---------------------------------------|-----------------|
| Ficha técnica,<br>información técnica | 1SFC132012C0201 |
| Instrucciones y<br>manuales           | 1SFC132033M0001 |

## Dimensiones

|                   |        |
|-------------------|--------|
| Ancho del product | 180 mm |
| Alto del producto | 220 mm |
| Largo del product | 70 mm  |
| Peso del product  | 2.1 kg |

## Technical

|  |  |
|--|--|
| Rated Operational Voltage  | 208 ... 600 V AC   |
| Rated Control Supply Voltage (U <sub>s</sub> )                   | 100 ... 240 V AC   |
| Rated Control Circuit Voltage (U <sub>c</sub> )                  | 50 Hz / 60 Hz 100 ... 240 V AC<br>DC Operation 24 V              |
| Rated Frequency (f)  | 50/60 Hz<br>Main Circuit 50 / 60 Hz                              |
| Rated Operational Power - In-Line Connection (Pe)                | (230 V) 22 kW<br>(400 V) 45 kW<br>(500 V) 55 kW                  |
| Rated Operational Current - In-Line Connection (I <sub>e</sub> ) | 85 A   |
| Service Factor Percentage  | 100 %  |
| Overload Protection  | Recommended MS495 70 ... 90                                      |
| Integrated Electronic Overload                                   | No   |
| Adjustable Rated Motor Current I <sub>e</sub>                    | No   |
| Starting Capacity at Maximum Rated Current I <sub>e</sub>        | 4xI <sub>e</sub> for 6s  |
| Ramp Time  | 0 ... 20 second [unit of time]<br>1 ... 10 second [unit of time] |
| Initial Voltage During Start                                     | 40 ... 70 %  |
| Step Down Voltage Special Ramp                                   | 100 ... 60 %   |
| Current Limit Function   | No   |
| Switch for Inside Delta Connection                               | No   |
| Run Signal Relay   | Yes  |
| By-pass Signal Relay   | Yes  |
| Fault Signal Relay   | No   |
| Overload Signal Relay  | No   |
| Signal indication completed start ramp (LED)                     | Green  |
| Signal indication ready to start/standby ON (LED)                | Green  |
| Signal indication running R (LED)                                | Green  |
| Signal indication  | Green  |

ramping up/down (LED)

|   |  |
|---|--|
| Number of Starts Per Hour at 3.5*le for 7 sec. 50% ON Time 50% OFF Time | 10   |
| Communication   | FiledBusPlug(Optional)   |
| Grado de protección   | IP10   |
| Terminal Type   | Main Circuit: Bars   |
| Connecting Capacity Main Circuit  | Rigid 1x 10 ... 95 mm <sup>2</sup><br>Rigid 2 x 6 ... 35 mm <sup>2</sup>   |
| Connecting Capacity Control Circuit                                     | 1 x 0.75 ... 2.5<br>2 x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1 x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 2 x 0.75 ... 1.5 mm <sup>2</sup> |
| Connecting Capacity Supply Circuit                                      | Rigid 1 x 0.75 ... 2.5 mm <sup>2</sup>   |
| Tightening Torque   | Control Circuit 0.6 N-m<br>Main Circuit 8 N-m<br>Supply Circuit 0.6 N-m  |
| Product Main Type   | PSR85  |

## Technical UL/CSA

|                                  |  |
|----------------------------------|--|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V   |
| Ampere Rating UL/CSA             | 80 A   |
| Tightening Torque UL/CSA         | Control Circuit 5.3 in-lb<br>Main Circuit 70.8<br>Supply Circuit 5.3 in-lb |

## Ambiente

|                      |   |
|----------------------|---|
| Temperatura ambiente | Funcionamiento -25 ... +60 °C<br>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                 | CQC2008010304295498 |
| Declaration of Conformity - CCC | 2020980304001090    |
| Declaración de conformidad - CE | 1SFA1-95            |
| Environmental Information       | 1SFC132038D0201     |
| Instrucciones y manuales        | 1SFC132033M0001     |
| RoHS Information                | 1SFC132031D0202     |

## Información de Embalaje

|                           |               |
|---------------------------|---------------|
| Embalaje Nivel 1 Ancho    | 195 mm        |
| Embalaje Nivel 1 Largo    | 86 mm         |
| Embalaje Nivel 1 Alto     | 230 mm        |
| Embalaje Nivel 1 Peso     | 2.3 kg        |
| Embalaje Nivel 1 EAN      | 7320500362631 |
| Embalaje Nivel 1 Unidades | box 1 piece   |

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## Clasificaciones

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|                            |   |          |
|----------------------------|---|----------|
| Object Classification Code |   | Q        |
| ETIM 4                     | EC002572 - Electronic motor control and protection device |          |
| ETIM 5                     | EC002572 - Electronic motor control and protection device |          |
| ETIM 6                     | EC002572 - Motor management device                        |          |
| UNSPSC                     |   | 39121521 |

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## Categorías

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Convertidores de frecuencia → Softstarters → Arranadores suaves → PSR Softstarters → PSR85

Productos y sistemas de baja tensión → Aparatos de control → Softstarters → Arranadores suaves → PSR Softstarters → PSR85

