

## PRODUCT-DETAILS

# PSR12-600-70

## PSR12-600-70 Softstarter



### General Information

|                         |                          |
|-------------------------|--------------------------|
| Global Commercial Alias | PSR12-600-70             |
| Extended Product Type   | PSR12-600-70             |
| Product ID              | 1SFA896106R7000          |
| ABB Type Designation    | PSR12-600-70             |
| EAN                     | 7320500338247            |
| Catalog Description     | PSR12-600-70 Softstarter |

#### Long Description

The softstarter PSR12-600-70 has a rated maximum operational current of 12 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 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.

### Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85044090 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SFC132012C0201 |
| Instructions and Manuals          | 1SFC132030M0001 |

## Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 114 mm |
| Product Net Height         | 140 mm |
| Product Net Depth / Length | 45 mm  |
| Product Net Weight         | 0.4 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 (P <sub>e</sub> )   | (230 V) 3 kW<br>(400 V) 5.5 kW<br>(500 V) 5.5 kW                 |
| Rated Operational Current - In-Line Connection (I <sub>e</sub> ) | 12 A                                                             |
| Service Factor Percentage                                        | 100 %                                                            |
| Overload Protection                                              | Recommended MS132 10.00 ... 16.00                                |
| 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                                             | No                                                               |
| 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<br>ramping up/down (LED)                                       | Green                                                                                            |
| Number of Starts Per<br>Hour at 3.5*le for 7 sec.<br>50% ON Time 50% OFF<br>Time | 10                                                                                               |
| Communication                                                                    | FiledBusPlug(Optional)                                                                           |
| Degree of Protection                                                             | IP20                                                                                             |
| Terminal Type                                                                    | Screw Terminals                                                                                  |
| Connecting Capacity<br>Main Circuit                                              | Rigid 1/2 x 0.75 ... 2.5 mm <sup>2</sup>                                                         |
| Connecting Capacity<br>Control Circuit                                           | 1 x 0.75 ... 2.5<br>2 x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1/2 x 0.75 ... 2.5 mm <sup>2</sup> |
| Connecting Capacity<br>Supply Circuit                                            | Rigid 1/2 x 0.75 ... 2.5 mm <sup>2</sup>                                                         |
| Tightening Torque                                                                | Control Circuit 1 N-m<br>Main Circuit 1 N-m<br>Supply Circuit 1 N-m                              |
| Product Main Type                                                                | PSR12                                                                                            |

## Technical UL/CSA

|                                     |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| Maximum Operating<br>Voltage UL/CSA | Main Circuit 600 V                                                        |
| Tightening Torque<br>UL/CSA         | Control Circuit 8.9 in-lb<br>Main Circuit 8.9<br>Supply Circuit 8.9 in-lb |

## Environmental

|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| Ambient Air<br>Temperature | Operation -25 ... +60 °C<br>Storage -40 ... +70 °C              |
| RoHS Status                | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

## Certificates and Declarations (Document Number)

|                                    |                     |
|------------------------------------|---------------------|
| CQC Certificate                    | CQC2006010304208085 |
| Declaration of<br>Conformity - CCC | 2020980304001087    |
| Declaration of<br>Conformity - CE  | 1SFA1-86            |
| Environmental<br>Information       | 1SFC132038D0201     |
| Instructions and<br>Manuals        | 1SFC132030M0001     |
| RoHS Information                   | 1SFC132031D0202     |

## Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Width             | 121 mm        |
| Package Level 1 Depth /<br>Length | 50 mm         |
| Package Level 1 Height            | 156 mm        |
| Package Level 1 Gross<br>Weight   | 0.5 kg        |
| Package Level 1 EAN               | 7320500338247 |
| Package Level 1 Units             | box 1 piece   |

Classifications

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| 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                        |
| eClass                     | V11.0 : 27370907                                          |
| UNSPSC                     | 39121521                                                  |

Categories

Drives → Softstarters → Softstarters → PSR Softstarters → PSR12

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSR12

