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**PRODUCT-DETAILS**

## PSR12-600-70

### PSR12-600-70 Softstarter - 12 A - 208 ... 600 V AC



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#### 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 - 12 A - 208 ... 600 V AC |

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#### 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 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  | 85371091 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SFC132012C0201 |
| Instructions and Manuals          | 1SFC132030M0001 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |
| Wiring Diagram                    | N/A             |

## 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 ( $U_s$ )              | 100 ... 240 V AC   |
| Rated Control Circuit Voltage ( $U_c$ )             | 24 V DC  |
| Rated Frequency (f)                                 | 50/60 Hz<br>Main Circuit 50 / 60 Hz                              |
| Rated Operational Power - In-Line Connection (Pe)   | (230 V) 3 kW<br>(400 V) 5.5 kW<br>(500 V) 5.5 kW                 |
| Rated Operational Current - In-Line Connection (Ie) | 12 A   |
| Service Factor Percentage                           | 100 %  |
| Overload Protection                                 | Recommended MS132 10.00 ... 16.00                                |
| Integrated Electronic Overload                      | No   |
| Adjustable Rated Motor Current Ie                   | No   |
| Starting Capacity at Maximum Rated Current Ie       | 4xIe 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<br>Completed Start Ramp<br>(LED)                               | Green  |
| Signal Indication Ready<br>to Start/Standy ON<br>(LED)                           | Green  |
| Signal Indication<br>Running R (LED)   | Green  |
| Signal Indication<br>Ramping Up/Down<br>(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   | acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals 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  |
| Function   | Soft start with voltage ramp<br>Soft stop with voltage ramp                                      |

### Technical UL/CSA

|                                     |   |
|-------------------------------------|---|
| Horsepower Rating<br>UL/CSA         | (200 ... 208 V AC) Three Phase 3 Hp<br>(220 ... 240 V AC) Three Phase 3 Hp<br>(440 ... 480 V AC) Three Phase 7.5 Hp<br>(550 ... 600 V AC) Three Phase 10 Hp |
| 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 |
|----------------------------|--|

### Material Compliance

|   |                 |
|---|-----------------|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658 |
|---|-----------------|

|                                     |  |
|-------------------------------------|--|
| REACH Declaration                   | 2CMT2022-006481  |
| RoHS Information                    | 2CMT2022-006500  |
| RoHS Status                         | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA | 2CMT2023-006524  |
| WEEE B2C / B2B                      | Business To Business   |
| WEEE Category                       | 5. Small Equipment (No External Dimension More Than 50 cm)             |

## Certificates and Declarations

|                                 |                     |
|---------------------------------|---------------------|
| CQC Certificate                 | CQC2006010304208085 |
| Declaration of Conformity - CCC | 2020980304001087    |
| Declaration of Conformity - CE  | 1SFA1-86            |

## Container Information

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

## Classifications

|                                    |                         |
|------------------------------------|-------------------------|
| Object Classification Code         | Q                       |
| ETIM 7                             | EC000640 - Soft starter |
| ETIM 8                             | EC000640 - Soft starter |
| ETIM 9                             | EC000640 - Soft starter |
| eClass                             | V11.0 : 27370907        |
| UNSPSC                             | 39121521                |
| IDEA Granular Category Code (IGCC) | 4740 >> Soft starter    |

## Accessories

| Identifier      | Description                | Type           | Quantity | Unit Of Measure |
|-----------------|----------------------------|----------------|----------|-----------------|
| 1SFA896211R1001 | PSR16-MS116 Connection Kit | PSR16-MS116    | 1        | piece           |
| 1SFA896312R1002 | PS-FBPA Fieldbus plug kit  | PS-FBPA        | 1        | piece           |
| 1SFA896311R1001 | PSR-FAN3-45A FAN           | PSR-FAN3-45A   | 1        | piece           |
| 1SFA896313R1001 | PSR-FAN60-105A FAN         | PSR-FAN60-105A | 1        | piece           |

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## Categories

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Drives → Softstarters → Softstarters → PSR Softstarters → PSR12

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

