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 PRODUCT-DETAILS

## PSR30-600-70

### PSR30-600-70 Softstarter - 30 A - 208 ... 600 V AC




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#### General Information

|                         |  |
|-------------------------|--|
| Global Commercial Alias | PSR30-600-70                                       |
| Extended Product Type   | PSR30-600-70                                       |
| Product ID              | 1SFA896109R7000                                    |
| ABB Type Designation    | PSR30-600-70                                       |
| EAN                     | 7320500338308                                      |
| Catalog Description     | PSR30-600-70 Softstarter - 30 A - 208 ... 600 V AC |

#### Long Description

The softstarter PSR30-600-70 has a rated maximum operational current of 30 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 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.

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85371091 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SFC132012C0201 |
| Instructions and Manuals          | 1SFC132031M0001 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |
| Wiring Diagram                    | N/A             |

## Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 128 mm |
| Product Net Height         | 160 mm |
| Product Net Depth / Length | 45 mm  |
| Product Net Weight         | 0.6 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> )                  | 24 V DC  |
| Rated Frequency (f)  | 50/60 Hz<br>Main Circuit 50 / 60 Hz                              |
| Rated Operational Power - In-Line Connection (P <sub>e</sub> )   | (230 V) 7.5 kW<br>(400 V) 15 kW<br>(500 V) 18.5 kW               |
| Rated Operational Current - In-Line Connection (I <sub>e</sub> ) | 30 A   |
| Service Factor Percentage  | 100 %  |
| Overload Protection  | Recommended MS132 25 ... 32                                      |
| 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 Ramping Up/Down (LED)                                 | Green  |
| Number of Starts Per Hour at 3.5*le for 7 sec. 50% ON Time 50% OFF Time | 10   |
| Communication   | FiledBusPlug(Optional)   |
| Degree of Protection  | IP20   |
| Terminal Type   | Screw Terminals  |
| Connecting Capacity Main Circuit  | Rigid 1/2 x 2.5 ... 10 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 2.3 N-m<br>Supply Circuit 0.6 N-m  |
| Product Main Type   | PSR30  |
| Function  | Soft start with voltage ramp<br>Soft stop with voltage ramp  |

## Technical UL/CSA

|                                  |  |
|----------------------------------|--|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V   |
| Tightening Torque UL/CSA         | Control Circuit 5.3 in-lb<br>Main Circuit 20.4<br>Supply Circuit 5.3 in-lb |

## Environmental

|                         |  |
|-------------------------|--|
| Ambient Air Temperature | Operation -25 ... +60 °C<br>Storage -40 ... +70 °C |
| Degree of Protection    | IP20   |

## Material Compliance

|   |                 |
|---|-----------------|
| Conflict Minerals Reporting Template (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                 | CQC2006010304208086 |
| Declaration of Conformity - CCC | 2020980304001088    |
| Declaration of Conformity - CE  | 1SFA1-90            |

### Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 137 mm        |
| Package Level 1 Depth / Length | 50 mm         |
| Package Level 1 Height         | 176 mm        |
| Package Level 1 Gross Weight   | 0.7 kg        |
| Package Level 1 EAN            | 7320500338308 |
| 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 |
|-----------------|----------------------------|--------------|----------|-----------------|
| 1SFA896212R1001 | PSR30-MS132 Connection Kit | PSR30-MS132  | 1        | piece           |
| 1SFA896312R1002 | PS-FBPA Fieldbus plug kit  | PS-FBPA      | 1        | piece           |
| 1SFA896311R1001 | PSR-FAN3-45A FAN           | PSR-FAN3-45A | 1        | piece           |

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## Categories

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Drives → Softstarters → Softstarters → PSR Softstarters → PSR30

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSR30

