



PRODUCT-DETAILS

PSR30-600-70

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



| 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        | <p>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.</p> |

| 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 (Pe)   | (230 V) 7.5 kW<br>(400 V) 15 kW<br>(500 V) 18.5 kW               |
| Rated Operational Current - In-Line Connection (Ie) | 30 A   |
| Service Factor Percentage                           | 100 %  |
| Overload Protection                                 | Recommended MS132 25 ... 32                                      |
| 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                                | 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<br>Up/Down (LED)                                    | Green  |
| Number of Starts Per Hour<br>at 3.5*le for 7 sec. 50%<br>ON Time 50% OFF Time | 10   |
| Communication   | FiledBusPlug(Optional)   |
| Degree of Protection  | IP20   |
| Terminal Type   | Screw Terminals  |
| Connecting Capacity Main<br>Circuit   | Rigid 1/2 x 2.5 ... 10 mm²   |
| Connecting Capacity<br>Control Circuit  | 1 x 0.75 ... 2.5<br>2 x 0.75 ... 2.5 mm²<br>Rigid 1 x 0.75 ... 2.5 mm²<br>Rigid 2 x 0.75 ... 1.5 mm² |
| Connecting Capacity<br>Supply Circuit   | Rigid 1 x 0.75 ... 2.5 mm²   |
| 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<br>Voltage UL/CSA | Main Circuit 600 V   |
| Tightening Torque<br>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<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<br>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<br>- CCC | 2020980304001088    |
| Declaration of Conformity<br>- 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           |

Categories

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

