

PRODUCT-DETAILS

PSR12-600-70

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



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 |

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

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|------------------------|----------|
| 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

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|----------------------------|--------|
| Product Net Width | 114 mm |
| Product Net Height | 140 mm |
| Product Net Depth / Length | 45 mm |
| Product Net Weight | 0.4 kg |

Technical

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| 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 Main Circuit 50 / 60 Hz |
| Rated Operational Power - In-Line Connection (P _e) | (230 V) 3 kW (400 V) 5.5 kW (500 V) 5.5 kW |
| Rated Operational Current - In-Line Connection (I _e) | 12 A |
| Service Factor Percentage | 100 % |
| Overload Protection | Recommended MS132 10.00 ... 16.00 |
| Integrated Electronic Overload | No |
| Adjustable Rated Motor Current I _e | No |
| Starting Capacity at Maximum Rated Current I _e | 4xI _e for 6s |
| Ramp Time | 0 ... 20 second [unit of time] 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 Ramping Up/Down (LED) | Green |
| Number of Starts Per Hour at 3.5*I _e for 7 sec. 50% ON Time 50% OFF Time | 10 |
| Communication | FiledBusPlug(Optional) |
| Degree of Protection | IP20 |

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|-------------------------------------|--|
| Terminal Type | Screw Terminals |
| Connecting Capacity Main Circuit | Rigid 1/2 x 0.75 ... 2.5 mm ² |
| Connecting Capacity Control Circuit | 1 x 0.75 ... 2.5 2 x 0.75 ... 2.5 mm ² Rigid 1/2 x 0.75 ... 2.5 mm ² |
| Connecting Capacity Supply Circuit | Rigid 1/2 x 0.75 ... 2.5 mm ² |
| Tightening Torque | Control Circuit 1 N·m Main Circuit 1 N·m Supply Circuit 1 N·m |
| Product Main Type | PSR12 |
| Function | Soft start with voltage ramp Soft stop with voltage ramp |

Technical UL/CSA

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

Environmental

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|-------------------------|---|
| Ambient Air Temperature | Operation -25 ... +60 °C Storage -40 ... +70 °C |
| Degree of Protection | IP20 |
| RoHS Information | 1SFC132031D0202 |
| RoHS Status | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Certificates and Declarations

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

Container Information

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|--------------------------------|---------------|
| 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

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|------------------------------------|-------------------------|
| 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 |

Categories

Drives → Softstarters → Softstarters → PSR Softstarters → PSR12

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

