PRODUCT-DETAILS

# PSR60-600-70

## PSR60-600-70 Softstarter - 60 A - 208 ... 600 V AC



### General Information

| | |
|---|---|
| Global Commercial Alias | PSR60-600-70 |
| Extended Product Type | PSR60-600-70 |
| Product ID | 1SFA896112R7000 |
| ABB Type Designation | PSR60-600-70 |
| EAN | 7320500362594 |
| Catalog Description | PSR60-600-70 Softstarter - 60 A - 208 ... 600 V AC |
| Long Description | The softstarter PSR60-600-70 has a rated maximum operational current of 60 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. |

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## Ordering

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

## Popular Downloads

| | |
|---|---|
| Data Sheet, Technical Information | 1SFC132012C0201 |
| Instructions and Manuals | 1SFC132033M0001 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Wiring Diagram | N/A |

## Dimensions

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|---|---|
| Product Net Width | 180 mm |
| Product Net Height | 220 mm |
| Product Net Depth / Length | 70 mm |
| Product Net Weight | 2.1 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<br>Main Circuit 50 / 60 Hz |
| Rated Operational Power - In-Line Connection (Pe) | (230 V) 15 kW<br>(400 V) 30 kW<br>(500 V) 37 kW |
| Rated Operational Current - In-Line Connection (Ie) | 60 A |
| Service Factor Percentage | 100 % |
| Overload Protection | Recommended MS495 45 ... 63 |
| 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 |

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| | |
|---|---|
| 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*Ie for 7 sec. 50% ON Time 50% OFF Time | 10 |
| Communication | FiledBusPlug(Optional) |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Terminal Type | Main Circuit: Bars |
| Connecting Capacity Main Circuit | Rigid 1x 10 ... 95 mm²<br>Rigid 2 x 6 ... 35 mm² |
| Connecting Capacity 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 Supply Circuit | Rigid 1 x 0.75 ... 2.5 mm² |
| Tightening Torque | Control Circuit 0.6 N·m<br>Main Circuit 8 N·m<br>Supply Circuit 0.6 N·m |
| Product Main Type | PSR60 |
| Function | Soft start with voltage ramp<br>Soft stop with voltage ramp |

## Technical UL/CSA

| | |
|---|---|
| Horsepower Rating UL/CSA | (200 ... 208 V AC) Three Phase 20 Hp<br>(220 ... 240 V AC) Three Phase 20 Hp<br>(440 ... 480 V AC) Three Phase 40 Hp<br>(550 ... 600 V AC) Three Phase 50 Hp |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| Tightening Torque UL/CSA | Control Circuit 5.3 in·lb<br>Main Circuit 70.8<br>Supply Circuit 5.3 in·lb |

## Environmental

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

## Material Compliance

| | |
|---|---|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |

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| | |
|---|---|
| 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 | CQC2008010304295498 |
| Declaration of Conformity - CCC | 2020980304001090 |
| Declaration of Conformity - CE | 1SFA1-95 |

## Container Information

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|---|---|
| Package Level 1 Width | 195 mm |
| Package Level 1 Depth / Length | 86 mm |
| Package Level 1 Height | 230 mm |
| Package Level 1 Gross Weight | 2.3 kg |
| Package Level 1 EAN | 7320500362594 |
| 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 |
|---|---|---|---|---|
| 1SFA896215R1001 | PSR60-MS165 Connection Kit | PSR60-MS165 | 1 | piece |
| 1SFA899002R1072 | PSLW-72 Terminal Enlargement | PSLW-72 | 1 | piece |
| 1SFA896312R1002 | PS-FBPA Fieldbus plug kit | PS-FBPA | 1 | piece |
| 1SFA896313R1001 | PSR-FAN60-105A FAN | PSR-FAN60-105A | 1 | piece |

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## Categories

Drives → Softstarters → Softstarters → PSR Softstarters → PSR60

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSR60







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