



PRODUCT-DETAILS

PSRC45-600-70

PSRC45-600-70 Softstarter - 45 A - 208 ... 600 V AC



| General Information | |
|-------------------------|--|
| Global Commercial Alias | PSRC45-600-70 |
| Extended Product Type | PSRC45-600-70 |
| Product ID | 1SFA896211R7000 |
| ABB Type Designation | PSRC45-600-70 |
| EAN | 7320500465554 |
| Catalog Description | PSRC45-600-70 Softstarter - 45 A - 208 ... 600 V AC |
| Long Description | <p>The softstarter PSRC45-600-70 has a rated maximum operational current of 45 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. PSRC features a two-phase control soft start 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 PSRC softstarter range is a true plug-and-play with a fixed setting optimized for scroll compressors. PSRC is often combined 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 PSRC is fast and easy to install with fixed settings. Designed for scroll compressors results in less stress on the compressor reducing the maintenance cost to a minimum. The PSRC range 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 compressors.</p> |

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

| Popular Downloads | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SFC132012C0201 |
| Instructions and Manuals | 1SFC132043M0001 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Wiring Diagram | N/A |

| Dimensions | |
|----------------------------|--------|
| Product Net Width | 153 mm |
| Product Net Height | 187 mm |
| Product Net Depth / Length | 54 mm |
| Product Net Weight | 1 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 Main Circuit 50 / 60 Hz |
| Rated Operational Power - In-Line Connection (P _e) | (230 V) 11 kW (400 V) 22 kW (500 V) 30 kW |
| Rated Operational Current - In-Line Connection (I _e) | 45 A |
| Service Factor Percentage | 100 % |
| Overload Protection | Recommended MS450 36 ... 45 |
| Integrated Electronic Overload | No |
| Starting Capacity at Maximum Rated Current I _e | 4xI _e for 6s |
| Ramp Time | Fixed setting Fixed setting |
| Initial Voltage During Start | Fixed setting |
| Step Down Voltage Special Ramp | Fixed setting |
| 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*Ie for 7 sec. 50% ON Time 50% OFF Time | 10 |
| Communication | FiledBusPlug(Optional) |
| Degree of Protection | IP10 |
| Terminal Type | Screw Terminals |
| Connecting Capacity Main Circuit | Rigid 2 x 0.75 ... 1.5 mm ² |
| Connecting Capacity Supply Circuit | Rigid 1 x 0.75 ... 2.5 mm ² |
| Tightening Torque | Control Circuit 0.6 N-m Main Circuit 4 N-m Supply Circuit 0.6 N-m |
| Product Main Type | PSRC45 |
| Function | Soft start with voltage ramp 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 Main Circuit 35.4 Supply Circuit 5.3 in-lb |

Environmental

| | |
|----------------------------|--|
| Ambient Air Temperature | Operation -25 ... +60 °C Storage -40 ... +70 °C |
| Degree of Protection | IP10 |

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 | CQC2006010304208083 |
| Declaration of Conformity - CCC | 2020980304001089 |
| Declaration of Conformity - CE | 2CMT003878 |

| Container Information | |
|-----------------------------------|---------------|
| Package Level 1 Width | 163 mm |
| Package Level 1 Depth / Length | 56 mm |
| Package Level 1 Height | 217 mm |
| Package Level 1 Gross Weight | 1.1 kg |
| Package Level 1 EAN | 7320500465554 |
| 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 |
| 1SFA896216R1001 | PSR45-MS165 Connection Kit | PSR45-MS165 | 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 → PSRC45 |
| Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSRC45 |

