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PRODUCT-DETAILS

# PSR12-600-70

## PSR12-600-70 Softstarter




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### 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

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 a 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.

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### 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 a 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.

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### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

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### Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
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Instructions and Manuals

1SFC132030M0001

**Dimensions**

Product Net Width	114 mm
Product Net Height	140 mm
Product Net Depth / Length	45 mm
Product Net Weight	0.4 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> )	50 Hz / 60 Hz 100 ... 240 V AC DC Operation 24 V
Rated Frequency (f)	50/60 Hz Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection (P <sub>e</sub> )	(230 V) 3 kW (400 V) 5.5 kW (500 V) 5.5 kW
Rated Operational Current - In-Line Connection (I <sub>e</sub> )	12 A
Service Factor Percentage	100 %
Overload Protection	Recommended MS132 10.00 ... 16.00
Integrated Electronic Overload	No
Adjustable Rated Motor Current I <sub>e</sub>	No
Starting Capacity at Maximum Rated Current I <sub>e</sub>	4xle 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 <sub>e</sub> 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 0.75 ... 2.5 mm <sup>2</sup>
Connecting Capacity Control Circuit	1 x 0.75 ... 2.5 2 x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2 x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2 x 0.75 ... 2.5 mm <sup>2</sup>
Connecting Capacity	Rigid 1/2 x 0.75 ... 2.5 mm <sup>2</sup>

Supply Circuit	Control Circuit 1 N·m
Tightening Torque	Main Circuit 1 N·m
	Supply Circuit 1 N·m

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Product Main Type	PSR12
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## Technical UL/CSA

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

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## Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Storage -40 ... +70 °C
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

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## Certificates and Declarations (Document Number)

CQC Certificate	CQC2006010304208085
Declaration of Conformity - CCC	2020980304001087
Declaration of Conformity - CE	1SFA1-86
Environmental Information	1SFC132038D0201
Instructions and Manuals	1SFC132030M0001
RoHS Information	1SFC132031D0202

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## Container Information

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

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## Classifications

Object Classification Code	Q
ETIM 4	EC002572 - Electronic motor control and protection device
ETIM 5	EC002572 - Electronic motor control and protection device
ETIM 6	EC002572 - Motor management device
eClass	V11.0 : 27370907
UNSPSC	39121521

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## Categories

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

