

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

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.

### 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 Main Circuit 50 / 60 Hz
Rated Operational Power - In-Line Connection (P <sub>e</sub> )	(230 V) 7.5 kW (400 V) 15 kW (500 V) 18.5 kW
Rated Operational Current - In-Line Connection (I <sub>e</sub> )	30 A
Service Factor Percentage	100 %
Overload Protection	Recommended MS132 25 ... 32
Integrated Electronic Overload	No
Adjustable Rated Motor Current I <sub>e</sub>	No
Starting Capacity at Maximum Rated Current I <sub>e</sub>	4xI <sub>e</sub> 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	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*I <sub>e</sub> for 7 sec. 50% ON Time 50% OFF Time	10
Communication	FieldBusPlug(Optional)
Degree of Protection	IP20

Terminal Type	Screw Terminals
Connecting Capacity Main Circuit	Rigid 1/2 x 2.5 ... 10 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 x 0.75 ... 2.5 mm <sup>2</sup> Rigid 2 x 0.75 ... 1.5 mm <sup>2</sup>
Connecting Capacity Supply Circuit	Rigid 1 x 0.75 ... 2.5 mm <sup>2</sup>
Tightening Torque	Control Circuit 0.6 N-m Main Circuit 2.3 N-m Supply Circuit 0.6 N-m
Product Main Type	PSR30
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 20.4 Supply Circuit 5.3 in-lb

## Environmental

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

CQC Certificate	CQC2006010304208086
Declaration of Conformity - CCC	2020980304001088
Declaration of Conformity - 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

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### Accessories

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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

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### Categories

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Drives → Softstarters → Softstarters → PSR Softstarters → PSR30

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

