



PRODUCT-DETAILS

# PSR105-600-70

## PSR105-600-70 Softstarter - 105 A - 208 ... 600 V AC



General Information	
Global Commercial Alias	PSR105-600-70
Extended Product Type	PSR105-600-70
Product ID	1SFA896115R7000
ABB Type Designation	PSR105-600-70
EAN	7320500362655
Catalog Description	PSR105-600-70 Softstarter - 105 A - 208 ... 600 V AC
Long Description	<p>The softstarter PSR105-600-70 has a rated maximum operational current of 105 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.</p>

## Ordering

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

Product Net Width	180 mm
Product Net Height	220 mm
Product Net Depth / Length	70 mm
Product Net Weight	2.1 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) 30 kW (400 V) 55 kW (500 V) 55 kW
Rated Operational Current - In-Line Connection (I <sub>e</sub> )	105 A
Service Factor Percentage	100 %
Overload Protection	Recommended MS495 80 ... 100
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*Ie for 7 sec. 50% ON Time 50% OFF Time	10
Communication	FiledBusPlug(Optional)
Degree of Protection	IP10
Terminal Type	Main Circuit: Bars
Connecting Capacity Main Circuit	Rigid 1x 10 ... 95 mm <sup>2</sup> Rigid 2 x 6 ... 35 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 8 N-m Supply Circuit 0.6 N-m
Product Main Type	PSR105
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 70.8 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
SCIP	1caf577d-084a-43ed-a6ea-ef420754c09b China (CN)
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**

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	7320500362655
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
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

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Drives → Softstarters → Softstarters → PSR Softstarters → PSR105

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSR105

