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.

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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_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 (Pe)	(230 V) 7.5 kW (400 V) 15 kW (500 V) 18.5 kW
Rated Operational Current - In-Line Connection (Ie)	30 A
Service Factor Percentage	100 %
Overload Protection	Recommended MS132 25 ... 32
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] 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 IP20
Terminal Type	Screw Terminals
Connecting Capacity Main Circuit	Rigid 1/2 x 2.5 ... 10 mm²
Connecting Capacity Control Circuit	1 x 0.75 ... 2.5 2 x 0.75 ... 2.5 mm² Rigid 1 x 0.75 ... 2.5 mm² 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 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

Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 7.5 Hp (220 ... 240 V AC) Three Phase 10 Hp (440 ... 480 V AC) Three Phase 20 Hp (550 ... 600 V AC) Three Phase 25 Hp
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

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	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

Accessories

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

Drives → Softstarters → Softstarters → PSR Softstarters → PSR30

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







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