PRODUCT-DETAILS

PSR45-600-70

PSR45-600-70 Softstarter - 45 A - 208 ... 600 V AC



General Information

Global Commercial Alias	PSR45-600-70
Extended Product Type	PSR45-600-70
Product ID	1SFA896111R7000
ABB Type Designation	PSR45-600-70
EAN	7320500338346
Catalog Description	PSR45-600-70 Softstarter - 45 A - 208 ... 600 V AC
Long Description	The softstarter PSR45-600-70 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. 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	1SFC132032M0001
Instructions and Manuals (Part 3)	1SFC132060M0201
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 (Pe)	(230 V) 11 kW (400 V) 22 kW (500 V) 30 kW
Rated Operational Current - In-Line Connection (Ie)	45 A
Service Factor Percentage	100 %
Overload Protection	Recommended MS450 36 ... 45
Integrated Electronic Overload	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 IP10
Terminal Type	Screw Terminals
Connecting Capacity Main Circuit	Rigid 1x 6 ... 35 mm² Rigid 2 x 6 ... 16 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 4 N·m Supply Circuit 0.6 N·m
Product Main Type	PSR45
Function	Soft start with voltage ramp Soft stop with voltage ramp

Technical UL/CSA

Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 15 Hp (220 ... 240 V AC) Three Phase 15 Hp (440 ... 480 V AC) Three Phase 30 Hp (550 ... 600 V AC) Three Phase 40 Hp
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

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	CQC2006010304208083
Declaration of Conformity - CCC	2020980304001089
Declaration of Conformity - CE	1SFA1-91

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	7320500338346
Package Level 1 Units	box 1 piece

External Classifications and Standards

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

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Categories

Drives → Softstarters → Softstarters → PSR Softstarters → PSR45

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSR45







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