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PRODUCT-DETAILS

PSR3-600-70

PSR3-600-70 Softstarter

General Information

Global Commercial Alias	PSR3-600-70
Extended Product Type	PSR3-600-70
Product ID	1SFA896103R7000
ABB Type Designation	PSR3-600-70
EAN	7320500338186
Catalog Description	PSR3-600-70 Softstarter
Long Description	The softstarter PSR3-600-70 has a rated maximum operational current of 3 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85044090

Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
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_s)	100 ... 240 V AC
Rated Control Circuit Voltage (U_c)	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 (Pe)	(230 V) 0.75 kW (400 V) 1.5 kW (500 V) 2.2 kW
Rated Operational Current - In-Line Connection (Ie)	3.9 A
Service Factor Percentage	100 %
Overload Protection	Recommended MS116 0.63 ... 4.00
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
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*Ie 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 mm²
Connecting Capacity Control Circuit	1 x 0.75 … 2.5 2 x 0.75 … 2.5 mm² Rigid 1/2 x 0.75 … 2.5 mm²
Connecting Capacity Supply Circuit	Rigid 1/2 x 0.75 … 2.5 mm²
Tightening Torque	Control Circuit 1 N·m Main Circuit 1 N·m Supply Circuit 1 N·m
Product Main Type	PSR3

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Ampere Rating UL/CSA	3 A
Tightening Torque UL/CSA	Control Circuit 8.9 in·lb Main Circuit 8.9 Supply Circuit 8.9 in·lb

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

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

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	7320500338186
Package Level 1 Units	box 1 piece

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
UNSPSC	39121521

Categories

Drives → Softstarters → Softstarters → PSR Softstarters → PSR3

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSR3