PRODUCT-DETAILS

PSRC3-600-70

PSRC3-600-70 Softstarter - 3.9 A - 208 ... 600 V AC

General Information

Global Commercial Alias	PSRC3-600-70
Extended Product Type	PSRC3-600-70
Product ID	1SFA896203R7000
ABB Type Designation	PSRC3-600-70
EAN	7320500465479
Catalog Description	PSRC3-600-70 Softstarter - 3.9 A - 208 ... 600 V AC
Long Description	The softstarter PSRC3-600-70 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. PSRC features a two-phase control soft start through a voltage ramp. It has built-in bypass for easy installation and energy saving. A RUN signal is available from a relay output in NO (normally open state). The PSRC softstarter range is a true plug-and-play with a fixed setting optimized for scroll compressors. PSRC is often combined 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 PSRC is fast and easy to install with fixed settings. Designed for scroll compressors results in less stress on the compressor reducing the maintenance cost to a minimum. The PSRC range 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 compressors.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

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Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
Instructions and Manuals	1SFC132041M0001
CAD Dimensional Drawing	2CDC001079B0201
Wiring Diagram	N/A

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)	24 V DC
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
Starting Capacity at Maximum Rated Current Ie	4xIe for 6s
Ramp Time	Fixed setting Fixed setting
Initial Voltage During Start	Fixed setting
Step Down Voltage Special Ramp	Fixed setting
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	Green

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(LED)	
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 2 x 0.75 ... 1.5 mm²
Connecting Capacity Supply Circuit	Rigid 2 x 0.75 ... 1.5 mm²
Tightening Torque	Control Circuit 1 N·m Main Circuit 1 N·m Supply Circuit 1 N·m
Product Main Type	PSRC3
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 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
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	CQC2006010304208085
Declaration of Conformity - CCC	2020980304001087
Declaration of Conformity - CE	2CMT003878

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	7320500465479
Package Level 1 Units	box 1 piece

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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
1SFA896211R1001	PSR16-MS116 Connection Kit	PSR16-MS116	1	piece
1SFA896312R1002	PS-FBPA Fieldbus plug kit	PS-FBPA	1	piece
1SFA896311R1001	PSR-FAN3-45A FAN	PSR-FAN3-45A	1	piece
1SFA896313R1001	PSR-FAN60-105A FAN	PSR-FAN60-105A	1	piece

Categories

Drives → Softstarters → Softstarters → PSR Softstarters → PSRC3

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSRC3

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