PRODUCT-DETAILS

PSRC105-600-70

PSRC105-600-70 Softstarter - 105 A - 208 ... 600 V AC



General Information

Global Commercial Alias	PSRC105-600-70
Extended Product Type	PSRC105-600-70
Product ID	1SFA896215R7000
ABB Type Designation	PSRC105-600-70
EAN	7320500465592
Catalog Description	PSRC105-600-70 Softstarter - 105 A - 208 ... 600 V AC
Long Description	The softstarter PSRC105-600-70 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. 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.

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Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
Instructions and Manuals	1SFC132044M0001
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_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) 30 kW (400 V) 55 kW (500 V) 55 kW
Rated Operational Current - In-Line Connection (Ie)	105 A
Service Factor Percentage	100 %
Overload Protection	Recommended MS495 80 ... 100
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	Yes

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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 1 x 0.75 ... 2.5 mm²
Connecting Capacity Supply Circuit	Rigid 2 x 0.75 ... 1.5 mm²
Tightening Torque	Control Circuit 0.6 N·m Main Circuit 8 N·m Supply Circuit 0.6 N·m
Product Main Type	PSRC105
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
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)

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Certificates and Declarations

CQC Certificate	CQC2008010304295498
Declaration of Conformity - CCC	2020980304001090
Declaration of Conformity - CE	2CMT003878

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	7320500465592
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

Categories

Drives → Softstarters → Softstarters → PSR Softstarters → PSRC105

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSRC105

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