PRODUCT-DETAILS

PSR105-600-70

PSR105-600-70 Softstarter - 105 A - 208 ... 600 V AC



General Information

Global Commercial Alias	PSR105-600-70
Extended Product Type	PSR105-600-70
Product ID	1SFA896115R7000
ABB Type Designation	PSR105-600-70
EAN	7320500362655
Catalog Description	PSR105-600-70 Softstarter - 105 A - 208 ... 600 V AC
Long Description	The softstarter PSR105-600-70 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. 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.

© 2024 ABB. All rights reserved.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85371091

Popular Downloads

Data Sheet, Technical Information	1SFC132012C0201
Instructions and Manuals	1SFC132033M0001
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
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

© 2024 ABB. All rights reserved.

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	Main Circuit: Bars
Connecting Capacity Main Circuit	Rigid 1x 10 ... 95 mm² Rigid 2 x 6 ... 35 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 8 N·m Supply Circuit 0.6 N·m
Product Main Type	PSR105
Function	Soft start with voltage ramp Soft stop with voltage ramp

Technical UL/CSA

Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 30 Hp (220 ... 240 V AC) Three Phase 40 Hp (440 ... 480 V AC) Three Phase 75 Hp (550 ... 600 V AC) Three Phase 100 Hp
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

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658

© 2024 ABB. All rights reserved.

REACH Declaration	2CMT2022-006481
RoHS Information	2CMT2022-006500
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
SCIP	1caf577d-084a-43ed-a6ea-ef420754c09b China (CN)
Simplified SCIP	a8f395b5-1127-4638-8024-38a783c152c8 Belgium (BE) 7d0a9760-9ea1-42b3-98f7-4e724ef78911 Poland (PL) ed1fc283-6b27-44d8-8725-2b46b433421a Denmark (DK) 0bdb76ec-7ca1-4b70-b302-7ce5f5411d23 Portugal (PT) 413c893f-1b83-46db-a180-b4c6ddd8ed02 Netherlands (NL) 3bd6648c-29e3-41bc-bc3a-93d519ff0fd7 Bulgaria (BG) 1bc9c8fd-2c4f-455a-9977-4887c7bdc5e9 Poland (PL) e31abd8d-ff59-41c7-937b-62844b638e0d Germany (DE) 5ca5841d-38cb-43f9-95d0-d547b5cc1c12 Germany (DE) c00b7270-a71e-4bd4-bc1e-dd67592b7405 Germany (DE) 63b14012-9a30-4e55-b03e-0bedb8a4a173 Germany (DE) d699c2c1-358f-4a8a-81f0-e5b622e834a7 Norway (NO) 02646bbe-118b-4dfb-a731-db51161ae5c9 Germany (DE) 5c35b4cf-0c63-4b15-a6fb-ab83ad47108a Estonia (EE) 395938c2-85aa-422f-b15e-48fb826e6f29 Spain (ES) 68262a02-2979-4a6e-ba6f-e25ba3ce04cc Greece (GR) 9f2eebb8-e7dc-4bc8-ab03-92e142d9f09e Sweden (SE) d38c2dfb-b3d2-4f38-99f9-f4de1358db63 Czech Republic (CZ) 2dfb37a8-a9ee-4079-93a7-1f9a4e28beb3 Hungary (HU) 1d4c812f-b182-4699-bfd3-7a1f1090f717 Belgium (BE) 8aebbb82-2d49-4924-9fc9-cac09a75134d Croatia (HR) 530e9cc9-4151-4420-bf5c-123d46350c74 Sweden (SE) 3aae3b40-98ac-4f01-9190-644b0b615b15 Hungary (HU) 90b967be-3424-47ac-b669-e9ac5daae122 Poland (PL) 94dad42b-f290-40eb-93c8-2f48e8aaf1a1 France (FR) a61bf1ca-7d1f-4cca-943f-fa33880a9424 Finland (FI) ea2dd0ce-0a6b-47c6-a85d-244d66f62874 France (FR)
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	CQC2008010304295498
Declaration of Conformity - CCC	2020980304001090
Declaration of Conformity - CE	1SFA1-95

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	7320500362655
Package Level 1 Units	box 1 piece

Classifications

Object Classification Code	Q
ETIM 7	EC000640 - Soft starter

© 2024 ABB. All rights reserved.

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 → PSR105

Low Voltage Products and Systems → Control Products → Softstarters → Softstarters → PSR Softstarters → PSR105







© 2024 ABB. All rights reserved.