

PRODUCT-DETAILS

PSR37-600-70 PSR37-600-70 Softstarter



| General Information | |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias | PSR37-600-70 |
| Extended Product Type | PSR37-600-70 |
| Product ID | 1SFA896110R7000 |
| ABB Type Designation | PSR37-600-70 |
| EAN | 7320500338322 |
| Catalog Description | PSR37-600-70 Softstarter |
| Long Description | The softstarter PSR37-600-70 has a rated maximum operational current of 37 A with an operating voltage span from 208600 V AC. The rated control voltage is between 100240 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 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 3105 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 | 1SFC132032M0001 |

| 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) | 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) 7.5 kW (400 V) 18.5 kW (500 V) 22 kW |
| Rated Operational Current - In-Line Connection (Ie) | 37 A |
| Service Factor Percentage | 100 % |
| Overload Protection | Recommended MS450 28 40 |
| Integrated Electronic Overload | No |
| Adjustable Rated Motor Current le | No |
| Starting Capacity at Maximum Rated Current Ie | 4xle 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 | Να |
| Switch for Inside Delta Connection | No |
| Run Signal Relay | Yes |
| By-pass Signal Relay | Yes |
| Fault Signal Relay | Nc |
| Overload Signal Relay | Nc |
| Signal indication completed start ramp (LED) | Greer |
| Signal indication ready to start/standby ON (LED) | Green |
| Signal indication running R (LED) | Greer |

| Tambag dy Bown (LEU) Number of Starks Per ID ID Number of Starks Per ID ID Number of Starks ID | Signal indication | Green |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------|
| Hour at 32% for 7 sec. 50% ON Time 50% OFF Time Communication PlueBelusPlug(Optional) Dagree of Protection Plue Terminal Type Connecting Capacity Rigid 2.6. 35 mm? Main Circuit Rigid 2.6. 35 mm? Connecting Capacity Rigid 2.6. 35 mm? Experimental Supply Circuit Rigid 2.6. 35 mm? Supply Circuit 8.6. 48 mm Supply Circuit 8.6 | ramping up/down (LED) | 10 |
| Time Communication PiledBusPlug(ptiona) Degree of Protection PiledBusPlug(ptiona) Degree of Protection PiledBusPlug(ptiona) Piled PiledBusPlug(ptiona) Piled | | 10 |
| Communication FiledBusPlug(Optional) Degree of Protection IPID Terminal Type Screw Terminats Connecting Capacity Rigid 2x 635 mm ² Connecting Capacity 2 11 v 0.7525 control Connecting Capacity 2 2 v 0.7325 mm ² Connecting Capacity Rigid 1 x 0.7525 mm ² Connecting Capacity Rigid 2 x 0.7515 mm ² Control Circuit 6 Nim Supply Circuit 4 Nim Supply Circuit 5.3 in b Main Circuit 5.3 in b UL/CSA Environmental Ambient Air Operation -25460 °C RelS Status Following EU Directive 2002/95/EC August 18, 2005 and amendment Certificates and Declarations (Document Number) COC certificate COC20060104/200089 Conformity - CE Environmental ISFC13203BD0201 Instructions and Manuals RelS Information ISFC13203BD0201 Instructions and Manuals RelS Information ISFC13203BD0201 Information | | |
| Degree of Protection P10 Terminal Type Screw Terminals Main Circuit Capacity Rigid 24.5.35 mm ²⁴ Main Circuit Capacity 112.075.2.25 mm ²⁴ Rigid 14.075.2.25 mm ²⁴ Rigid 14.075.2.25 mm ²⁴ Rigid 14.075.2.55 mm ²⁴ Rigid 14.075.2.55 mm ²⁴ Connecting Capacity Rigid 14.075.2.55 mm ²⁴ Rigid 14.075 m | | |
| Terminal Type Screw Terminals Connecting Capacity Rigid 24.635 mm ² Rigid 24.636 mm ² Control Circuit Rigid 24.636 mm ² Control Circuit Rigid 24.636 mm ² Rigid 24.636 mm ² Control Circuit Rigid 24.07515 mm ² Rigid 24.07515 mm ² Control Circuit Control | | |
| Connecting Capacity Rigid 16.635 mm² Connecting Capacity 1x 0.7525 mm² Control Circuit 2 2 0.7525 mm² Rigid 1 x 0.7525 mm² Rigid 1 x 0.7525 mm² Connecting Capacity Rigid 1 x 0.7525 mm² Connecting Capacity Rigid 1 x 0.7525 mm² Supply Circuit Rigid 1 x 0.7525 mm² Connecting Capacity Rigid 1 x 0.7525 mm² Supply Circuit Control Circuit 0.6 Nm Main Circuit 4 Nm Supply Circuit 6.8 Nm Product Main Type PSR37 Technical UL/CSA Main Circuit 6.00 V Main Circuit 5.3 in Nb Supply Circuit 5.3 in Nb Product Main Type PSR37 Tephrening Torque Control Circuit 5.3 in Nb U/CSA Supply Circuit 5.3 in Nb Temperature Storage -40+60°C RoH5 Status Following EU Directive 2002/95/EC August 18, 2005 and amendment Cort Circuificates and Declarations (Document Number) Cocccoecoocoocoocoocoocoocoocoocoocoocooc | | |
| Main Circuit Rigid 2 × 6 16 mm ² Connecting Capacity 1 × 0.75 25 mm ² Rigid 2 × 0.75 25 mm ² Rigid 2 × 0.75 25 mm ² Supply Circuit Rigid 2 × 0.75 25 mm ² Supply Circuit Rigid 2 × 0.75 25 mm ² Supply Circuit Rigid 2 × 0.75 25 mm ² Supply Circuit 0 6 H m Main Circuit 4 H m Product Main Type PSR37 Technical UL/CSA Maximum Operating Voltage UL/CSA Main Circuit 50 H Main Circuit 50 H Main Circuit 53 hb UL/CSA Tightening Torque Control Circuit 0.6 V m Main Circuit 34 M m Supply Circuit 0.6 H m Main Circuit 53 mb Different Stars | | |
| Control Circuit 22, 0.7525 mm ² Bigld 22, 0.7525 mm ² Supply Circuit Rigid 2, 0.7525 mm ² Supply Circuit Control Circuit 0, 0.6 Nm Main Circuit 4, Nm Supply Circuit 0, 0.6 Nm Main Circuit 6, 0.6 Nm Main Circuit 6, 0.75 Supply Circuit 0, 0.75 Control Circuit 0, 0.8 Nm Main Circuit 6, 0.75 Supply Circuit 0, 0.75 Supply Circuit 5, 0.75 | | |
| Rigid 12 v.0.752.5 mm ³ Connecting Capacity Rigid 12 v.0.752.5 mm ³ Supply Circuit Control Circuit 0.6 Nm Main Circuit 4 Nm Supply Circuit 6.8 Nm Product Main Type PSR37 Technical UL/CSA Main Circuit 6.0 V Maximum Operating Main Circuit 5.3 in-lb Voitage UL/CSA Control Circuit 5.3 in-lb Tightening Torque Control Circuit 5.3 in-lb UL/CSA Supply Circuit 5.3 in-lb Environmental Operation -25 +60 °C RelS Status Following EU Directive 2002/95/EC August 18, 2005 and amendment Controling - CC Storage - 40 +70 °C Conformity - CC 2020980304001089 Declaration of 2020980304001089 Conformity - CC 2020980304001089 Conformity - CC 15FC13203800201 Information 15FC13203800201 Information 15FC13203800201 Mainulas 15FC13203102020 Conformity - CC Sofarmity Declaration of 15FC13203800201 Information 15FC13203102020 Manuals 15FC13203102020 Manuals< | Connecting Capacity | 1 x 0.75 2.5 |
| Rigid 2 x 0.7515 mm² Supply Circuit Tightening Torque Control Circuit 0.6 N m Main Circuit 4 N Product Main Type PSR37 Technical UL/CSA Main Circuit 6.0 N m Maximum Operating Main Circuit 6.0 N m Valtage UL/CSA Supply Circuit 0.6 N m Maximum Operating Main Circuit 5.3 in Ib Maximum Operating Control Circuit 5.3 in Ib Main Circuit 5.3 in Ib Main Circuit 5.3 in Ib Maximum Operating Voltage UL/CSA Supply Circuit 5.3 in Ib Main Circuit 5.3 in Ib Main Circuit 5.3 in Ib Maximum Operating Voltage UL/CSA Supply Circuit 5.3 in Ib Environmental Supply Circuit 5.3 in Ib Main Circuit 5.0 Voltage UL/CSA Supply Circuit 5.3 in Ib Certificates and Declarations (Document Number) Coccconformetry CCC 2020980304001089 Conformity - CCC 2020980304001089 Declaration of ISFA1-91 Conformity - CC 2020980304001089 Information 1SFC13203BD0201 Information 1SFC13203BD0202 Manuals 1SFC13203BD0202 R | Control Circuit | |
| Contexting Capacity Supply Circuit Tightening Torque Poduct Main Type Control Circuit 0.6 N vm Main Circuit 4 N vm Supply Circuit 0.6 N vm Main Circuit 5.3 in Hb UL/CSA Tightening Torque UL/CSA Control Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb UL/CSA Control Circuit 5.3 in Hb Circuit 5.3 in Hb Circu | | |
| Tightening Torque Control Circuit 6.8 Nm Main Circuit 4 Nm Supply Circuit 0.6 Nm Main Circuit 5.4 Control Circuit 5.3 infb Main Circuit 5.4 Control Circuit 5.3 infb Main Circuit 5.4 Supply Circuit 5.3 Supply | Connecting Capacity | |
| Main Circuit 4 Nm Supply Circuit 0 6 Nm Product Main Type Product Main Circuit 5.3 Main Circuit 5.3 UL/CSA Tightening Torque UL/CSA Supply Circuit 5.3 Main Circuit 5.3 Supply Circuit 5.3 Supply Circuit 5.3 Supply Circuit 5.3 Supply Circuit 5.3 Main Circuit 8.3 Supply Circuit 5.3 Main Circuit 8.3 Supply Circuit 6.3 Supply Circuit 6.3 Supply Circuit 6.3 Cortrol Circuit 8.3 Supply Circuit 6.3 Cort Supply Circuit 6.3 Cortrol Circuit 8.3 Cortrol Circuit 8.3 | Supply Circuit | |
| Supply Circuit 0.6 N-m Product Main Type Product Main Circuit 600 V Product Voltage UL/CSA Tightening Torque Control Circuit 5.3 In-16 UL/CSA Control Circuit 5.3 In-16 Product Main Circuit 5.3 In-16 Product Main Circuit 5.3 In-16 Product Main Circuit 5.3 In-16 Control Circuit 5.3 In-16 Circuit 5.3 In-16 Control Circuit 5.3 In-16 Circuit | Tightening Torque | |
| Product Main Type PSR37 | | |
| Technical UL/CSA Maximum Operating Main Circuit 600 V Voltage UL/CSA Control Circuit 5.3 in-Ib Tightening Torque Control Circuit 5.3 in-Ib L/CSA Supply Circuit 5.3 in-Ib Environmental Operation 25 +60 °C Ambient Air Operation 25 +60 °C Temperature Storage-40 +70 °C ReHS Status Following EU Directive 2002/95/EC August 18, 2005 and amendment Certificates and Declarations (Document Number) CQC2006010304208083 Declaration of 15FAI-91 Conformity - CC 2020980304001089 Declaration of 15FAI-91 Conformity - CE 15FAI-91 Environmental 15FC13203800201 Information 15FC132032M0001 Instructions and 15FC132032M0001 Manuals 15FC132031D0202 Container Information 163 mm Package Level 1 Width 163 mm Package Level 1 Height 217 mm Package Level 1 Forss 1.1 kg Weight 1.1 kg | Product Main Type | |
| Maximum Operating Voltage UL/CSA Tightening Torque UL/CSA UL/CSA Control Circuit 5.3 in-lb Main Circuit 5.3 Supply Circuit 5.3 in-lb Environmental Ambient Air Certificates and Declarations (Document Number) Certificates and Declarations (Document Number) CQC Certificate CQC2006010304208083 Declaration of 2020980304001089 Conformity - CC Environmental Information Information Instructions and Main Circuit 5.3 in-lb Certificates (Document Number) Conformity - CC Conformity - CC Environmental Information Instructions and Manuals RoHS Information Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Gross Likg Weight Package Level 1 Gross Likg Weight | | |
| Voltage UL/CSA Control Circuit 5.3 in-lb Tightening Torque Control Circuit 5.3 in-lb UL/CSA Supply Circuit 5.3 in-lb Environmental Operation -25 +60 °C Ambient Air Operation -25 +60 °C Temperature Storage -40 +70 °C ROHS Status Following EU Directive 2002/95/EC August 18, 2005 and amendment Certificates and Declarations (Document Number) CQC2006010304208083 Conformity - CCC 2020980304001089 Declaration of 2020980304001089 Conformity - CE 15FA1-91 Environmental 15FA1-91 Information 15FC132032M0001 Manuals 15FC132031D0202 Container Information 15FC132031D0202 Container Information 163 mm Package Level 1 Depth / 56 mm Length 217 mm Package Level 1 Gross 1.1 kg Weight 11 kg Package Level 1 EAN 7320500383222 | Technical UL/CSA | |
| UL/CSA Main Circuit 35.4 Supply Circuit 5.3 in-lb Environmental Ambient Air Operation -25 +60 °C Temperature Storage -40 +70 °C RoHS Status Following EU Directive 2002/95/EC August 18, 2005 and amendment Certificates and Declarations (Document Number) CQC 2006010304208083 CQC certificate CQC2006010304208083 Declaration of 2020980304001089 Conformity - CCC 0 Declaration of 15FA1-91 Conformity - CE Environmental Instructions and 15FC132038D0201 Information 15FC132032M0001 Manuals 15FC132031D0202 Container Information 15FC132032D0201 Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Package Level 1 Depth / 51 mm Package Level 1 Fight 217 mm Package Level 1 Gross 1.1 kg Weight 1.1 kg | | Main Circuit 600 V |
| Supply Circuit 5.3 in-lb Environmental Ambient Air Operation -25 +60 °C Temperature Storage -40 +70 °C ROHS Status Following EU Directive 2002/95/EC August 18, 2005 and amendment Certificates and Declarations (Document Number) CQC Certificate CQC2006010304208083 Declaration of 2020980304001089 Conformity - CCC 15FA1-91 Declaration of 15FC132038D0201 Information 11 Instructions and 15FC132032M0001 Manuals 15FC132032M0001 RoHS Information 15FC132032M0001 Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Length 217 mm Package Level 1 Feight 217 mm Package Level 1 Foros 11 kg Weight 11 kg Package Level 1 EAN 7320500338322 | | |
| Environmental Ambient Air Certificates and Declarations (Document Number) CQC Certificates and Declarations (Document Number) CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Environmental Instructions and Manuals RoHS Information ISFC132032M0001 Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Leight Package Level 1 Leight Package Level 1 Leight Package Level 1 Gross Package Level 1 EAN Captage Level 1 EAN Capta | UL/CSA | |
| Certificates and Declarations (Document Number) CQC Certificate CQC2006010304208083 Declaration of 2020980304001089 Conformity - CCC 2020980304001089 Declaration of 1SFA1-91 Conformity - CE 1SFC132038D0201 Information 1SFC132038D0201 Information 1SFC132032M0001 Manuals 1SFC132032M0001 RoHS Information 1SFC132031D0202 Container Information Package Level 1 Width 163 mm Package Level 1 Width 56 mm Package Level 1 Height 217 mm Package Level 1 Gross 1.1 kg Weight 7320500338322 | Ambient Air | |
| CQC Certificate CQC2006010304208083 Declaration of 2020980304001089 Conformity - CCC 1SFA1-91 Declaration of 1SFA1-91 Conformity - CE 1SFC132038D0201 Information 1SFC132032M0001 Manuals 1SFC132032M0001 RoHS Information 1SFC132031D0202 Container Information Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Length 217 mm Package Level 1 Gross 1.1 kg Weight 732050038322 | RoHS Status | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| Declaration of 2020980304001089 Conformity - CCC Declaration of 15FA1-91 Conformity - CE Environmental 15FC132038D0201 Information 15FC132032M0001 Manuals RoHS Information 15FC132031D0202 Container Information 15FC132031D0202 Container Information 163 mm Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Length 217 mm Package Level 1 Height 217 mm Package Level 1 Gross 1.1 kg Weight Package Level 1 EAN 7320500338322 | Certificates and Declarations (D | Document Number) |
| Conformity - CCC 1SFA1-91 Declaration of 1SFA1-91 Conformity - CE 1SFC132038D0201 Information 1SFC132032M0001 Manuals 1SFC132032M0001 Manuals 1SFC132031D0202 Container Information 1SFC132031D0202 Container Information 1SFC132031D0202 Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Length 217 mm Package Level 1 Gross 1.1 kg Weight 7320500388322 | CQC Certificate | CQC2006010304208083 |
| Conformity - CE Environmental 15FC132038D0201 Information 15FC132032M0001 Manuals 15FC132031D0202 RoHS Information 15FC132031D0202 Container Information 15FC132031D0202 Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Length 217 mm Package Level 1 Height 217 mm Package Level 1 Gross 1.1 kg Weight 7320500338322 | | 2020980304001089 |
| Information Instructions and ISFC132032M0001 Manuals RoHS Information ISFC132031D0202 Container Information Package Level 1 Width Package Level 1 Depth / Length Package Level 1 Height Package Level 1 Height Package Level 1 Gross U11 kg Weight Package Level 1 EAN 7320500338322 | | 1SFA1-91 |
| Manuals ISFC132031D0202 RoHS Information ISFC132031D0202 Package Level 1 Width 163 mm Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Package Level 1 Height 217 mm Package Level 1 Gross 11 kg Weight 7320500338322 | | 1SFC132038D0201 |
| Container Information Package Level 1 Width 163 mm Package Level 1 Depth / 56 mm Length 217 mm Package Level 1 Height 217 mm Package Level 1 Gross 1.1 kg Weight 73205003383222 | | |
| Package Level 1 Width163 mmPackage Level 1 Depth / Length56 mmPackage Level 1 Height217 mmPackage Level 1 Gross11 kgWeight7320500338322 | RoHS Information | 1SFC132031D0202 |
| Package Level 1 Depth / Length56 mmPackage Level 1 Height217 mmPackage Level 1 Gross11 kgWeight7320500338322 | Container Information | |
| Package Level 1 Depth / Length56 mmPackage Level 1 Height217 mmPackage Level 1 Gross11 kgWeight7320500338322 | | 163 mm |
| Package Level 1 Height 217 mm Package Level 1 Gross 1.1 kg Weight 7320500338322 | Package Level 1 Depth / | |
| Package Level 1 Gross 1.1 kg Weight 1 Package Level 1 EAN 7320500338322 | - | 217 mm |
| Package Level 1 EAN 7320500338322 | Package Level 1 Gross | |
| Package Level 1 Units box 1 piece | | 7320500338322 |
| | 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 |
| eClass | V11.0 : 27370907 |
| UNSPSC | 39121521 |

Categories

 $\mathsf{Drives} \to \mathsf{Softstarters} \to \mathsf{Softstarters} \to \mathsf{PSR}\,\mathsf{Softstarters} \to \mathsf{PSR37}$

 $\mathsf{Low}\ \mathsf{Voltage}\ \mathsf{Products}\ \mathsf{and}\ \mathsf{Systems}\ \to\ \mathsf{Control}\ \mathsf{Products}\ \to\ \mathsf{Softstarters}\ \to\ \mathsf{Softstarters}\ \to\ \mathsf{PSR}\ \mathsf{Softstarters}\ \to\ \mathsf{Softstarters}\ \to\ \mathsf{PSR}\ \mathsf{Softstarters}\ \to\ \mathsf{Softstarters}\ \to\ \mathsf{Softstarters}\ \to\ \mathsf{PSR}\ \mathsf{Softstarters}\ \to\ \mathsf{PSR}\ \mathsf{Softstarters}\ \to\ \mathsf{Softstarte$





