

PRODUCT-DETAILS

# PSRC25-600-70

## PSRC25-600-70 Softstarter - 25 A - 208 ... 600 V AC



### Informations générales

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| Alias commercial mondial     | PSRC25-600-70                                       |
| Extension du type de produit | PSRC25-600-70                                       |
| Code de produit              | 1SFA896208R7000                                     |
| ABB désignation de type      | PSRC25-600-70                                       |
| EAN                          | 7320500465523                                       |
| Description courte           | PSRC25-600-70 Softstarter - 25 A - 208 ... 600 V AC |

### Description longue

The softstarter PSRC25-600-70 has a rated maximum operational current of 25 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.

### Commande

|                  |         |
|------------------|---------|
| Quantité minimum | 1 pièce |
|------------------|---------|

|               |          |
|---------------|----------|
| Code douanier | 85371091 |
|---------------|----------|

## Popular Downloads

|                                        |                 |
|----------------------------------------|-----------------|
| Fiche produit, informations techniques | 1SFC132012C0201 |
| Instructions et manuels                | 1SFC132042M0001 |
| CAD Dimensional Drawing                | 2CDC001079B0201 |
| Wiring Diagram                         | N/A             |

## Dimensions

|                      |        |
|----------------------|--------|
| Produit Largeur Net  | 128 mm |
| Produit Hauteur Net  | 160 mm |
| Produit Longueur Net | 45 mm  |
| Poids net            | 0.6 kg |

## Technique

|                                                                        |                                                  |
|------------------------------------------------------------------------|--------------------------------------------------|
| Tension                                                                | 208 ... 600 V AC                                 |
| Rated Control Supply Voltage ( $U_s$ )                                 | 100 ... 240 V AC                                 |
| Rated Control Circuit Voltage ( $U_c$ )                                | 24 V DC                                          |
| Fréquence assignée (f)                                                 | 50/60 Hz<br>Circuit principal 50 / 60 Hz         |
| Rated Operational Power - In-Line Connection ( $P_e$ )                 | (230 V) 5.5 kW<br>(400 V) 11 kW<br>(500 V) 15 kW |
| Courant nominal de fonctionnement--<br>Raccordement en ligne ( $I_e$ ) | 25 A                                             |
| Pourcentage Facteur de service                                         | 100 %                                            |
| Overload Protection                                                    | Recommended MS132 20 ... 25                      |
| Integrated Electronic Overload                                         | No                                               |
| Starting Capacity at Maximum Rated Current $I_e$                       | 4xle for 6s                                      |
| Ramp Time                                                              | Fixed setting<br>Fixed setting                   |
| Initial Voltage During Start                                           | Fixed setting                                    |
| Step Down Voltage Special Ramp                                         | Fixed setting                                    |
| Current Limit Function                                                 | No                                               |
| Switch for Inside Delta Connection                                     | Non                                              |
| Run Signal Relay                                                       | Oui                                              |

|                                                                                  |                                                                                  |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| By-pass Signal Relay                                                             | Yes                                                                              |
| Fault Signal Relay                                                               | No                                                                               |
| Overload Signal Relay                                                            | Non                                                                              |
| Signal Indication<br>Completed Start Ramp<br>(LED)                               | Green                                                                            |
| Signal Indication Ready to<br>Start/Standby ON (LED)                             | Green                                                                            |
| Voyant de signal indiquant<br>R (LED)                                            | Green                                                                            |
| Signal Indication Ramping<br>Up/Down (LED)                                       | Green                                                                            |
| Number of Starts Per<br>Hour at 3.5*1e for 7 sec.<br>50% ON Time 50% OFF<br>Time | 10                                                                               |
| Communication                                                                    | FiledBusPlug(Optional)                                                           |
| Indice de protection                                                             | IP20                                                                             |
| Type de borne                                                                    | Screw Terminals                                                                  |
| Connecting Capacity Main<br>Circuit                                              | Rigid 1 x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 2 x 0.75 ... 1.5 mm <sup>2</sup> |
| Connecting Capacity<br>Supply Circuit                                            | Rigid 1 x 0.75 ... 2.5 mm <sup>2</sup>                                           |
| Couple de serrage                                                                | Control Circuit 0.6 N·m<br>Main Circuit 2.3 N·m<br>Supply Circuit 0.6 N·m        |
| Groupe de produit                                                                | PSRC25                                                                           |
| Fonction                                                                         | Soft start with voltage ramp<br>Soft stop with voltage ramp                      |

## Technique UL/CSA

|                                     |                                                                            |
|-------------------------------------|----------------------------------------------------------------------------|
| Maximum Operating<br>Voltage UL/CSA | Circuit principal 600 V                                                    |
| Tightening Torque<br>UL/CSA         | Control Circuit 5.3 in·lb<br>Main Circuit 20.4<br>Supply Circuit 5.3 in·lb |

## Environnement

|                                 |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Température de l'air<br>ambiant | Operation -25 ... +60 °C<br>Storage -40 ... +70 °C              |
| Indice de protection            | IP20                                                            |
| Statut RoHS                     | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

## Certificats et Déclarations (Numéro de document)

|                                    |                     |
|------------------------------------|---------------------|
| CQC Certificate                    | CQC2006010304208086 |
| Declaration of Conformity<br>- CCC | 2020980304001088    |
| Déclaration de Conformité<br>- CE  | 2CMT003878          |

## Emballage

|                                |               |
|--------------------------------|---------------|
| Emballage Niveau 1<br>Largeur  | 137 mm        |
| Emballage Niveau 1<br>Longueur | 50 mm         |
| Emballage Niveau 1<br>Hauteur  | 176 mm        |
| Emballage Niveau 1 Poids       | 0.7 kg        |
| Emballage Niveau 1 EAN         | 7320500465523 |
| Emballage Niveau 1<br>Unités   | box 1 pièce   |

## Classifications

|                                             |                         |
|---------------------------------------------|-------------------------|
| Code de classification<br>d'objet           | Q                       |
| ETIM 7                                      | EC000640 - Soft starter |
| ETIM 8                                      | EC000640 - Soft starter |
| ETIM 9                                      | EC000640 - Soft starter |
| eClass                                      | V11.0 : 27370907        |
| UNSPSC                                      | 39121521                |
| Code de catégorie<br>granulaire IDEA (IGCC) | 4740 >> Soft starter    |

## Accessories

| Identifiant     | Description                | Type         | Quantity | Unit Of Measure |
|-----------------|----------------------------|--------------|----------|-----------------|
| 1SFA896212R1001 | PSR30-MS132 Connection Kit | PSR30-MS132  | 1        | piece           |
| 1SFA896312R1002 | PS-FBPA Fieldbus plug kit  | PS-FBPA      | 1        | piece           |
| 1SFA896311R1001 | PSR-FAN3-45A FAN           | PSR-FAN3-45A | 1        | piece           |

## Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Demarreurs progressifs → Démarreurs progressifs → PSR Softstarters → PSRC25

Variateurs de vitesse → Demarreurs progressifs → Démarreurs progressifs → PSR Softstarters → PSRC25

