

PRODUCT-DETAILS

# PSE45-600-70

## PSE45-600-70 Softstarter - 45 A - 208 ... 600 V AC



### Informations générales

Alias commercial mondial	PSE45-600-70
Extension du type de produit	PSE45-600-70
Code de produit	1SFA897105R7000
ABB désignation de type	PSE45-600-70
EAN	7320500400630
Description courte	PSE45-600-70 Softstarter - 45 A - 208 ... 600 V AC

Description longue	<p>The softstarter PSE45-600-70 has a rated maximum operational current of 45 A with an operating voltage span from 208...600 V AC. The rated control voltage is between 100...250 V AC at 50/60 Hz. PSE features a two-phase control with a soft start and stop through a voltage or a torque ramp. It has built-in bypass for easy installation and energy saving. A RUN, TOR, and Event signal is available from a relay output in NO (normally open state). The PSE has functions such as current limit, kickstart, analog output, EOL, underload, and locked rotor protection. To interact with PSE, it has an illuminated display that uses symbols to become language neutral. As an option, you can add an identical external keypad with a rating of IP66. There are three ways to communicate with PSE. It can be done by hardware inputs Start/Stop or by Reset of fault. Another popular option is the built-in fieldbus communication Modbus RTU. You can also use an external adaptor and a Fieldbus plug.</p> <p>PSE is a true general purpose softstarter. It's a perfect balance between high starting capacity and cost efficiency. Very suitable for small to medium-sized three-phase motors with nominal currents from 18...370 A. Typical applications are, for example, pumps, fans, compressors, and conveyors.</p>
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### Commande

Quantité minimum	1 pièce
Code douanier	85371091

## Downloads Préférés

Fiche produit, informations techniques	1SFC132012C0201
Instructions et manuels	1SFC132057M0201
CAD Dimensional Drawing	2CDC001079B0201
Wiring Diagram	N/A

## Dimensions

Produit Largeur Net	90 mm
Produit Hauteur Net	245 mm
Produit Longueur Net	184 mm
Poids net	2.5 kg

## Technique

Tension	208 ... 600 V AC
Rated Control Supply Voltage ( $U_s$ )	100 ... 250 V AC
Rated Control Circuit Voltage ( $U_c$ )	24 V DC
Fréquence assignée (f)	50/60 Hz Circuit principal 50 / 60 Hz
Rated Operational Power - In-Line Connection ( $P_e$ )	(230 V) 11 kW (400 V) 22 kW (500 V) 30 kW
Courant nominal de fonctionnement-- Raccordement en ligne ( $I_e$ )	45 A
Pourcentage Facteur de service	100 %
Overload Protection	Build-in electronic overload protection
Integrated Electronic Overload	Yes
Adjustable Rated Motor Current $I_e$	30 ... 100 %
Starting Capacity at Maximum Rated Current $I_e$	4xle for 10s
Ramp Time	0 ... 30 second [unit of time] 1 ... 30 second [unit of time]
Initial Voltage During Start	30 ... 70 %
Step Down Voltage Special Ramp	No %
Current Limit Function	1.5 ... 7xle

Switch for Inside Delta Connection	Non
Run Signal Relay	Oui
By-pass Signal Relay	Yes
Fault Signal Relay	Yes
Overload Signal Relay	Oui
Sorties analogiques	4...20 mA
Signal Indication Completed Start Ramp (LED)	Green
Signal Indication Ready to Start/Standby ON (LED)	Green
Voyant de signal indiquant R (LED)	Green
Signal Indication Ramping Up/Down (LED)	Green
Signal Indication Protection (LED)	Yellow
Signal Indication Fault (LED)	Red
Number of Starts Per Hour at 3.5*le for 7 sec. 50% ON Time 50% OFF Time	10
Communication	Modbus-RTU
Indice de protection	IP00
Type de borne	Screw Terminals
Connecting Capacity Main Circuit	Hole Diameter 8.5 mm Rigid 1/2 x 2.5 ... 70 mm <sup>2</sup> Width and Thickness 17.5x5 mm
Connecting Capacity Control Circuit	Rigid 1 x 2.5 mm <sup>2</sup> Rigid 2 x 1.5 mm <sup>2</sup>
Connecting Capacity Supply Circuit	Rigid 1 x 2.5 mm <sup>2</sup>
Couple de serrage	Control Circuit 0.5 N·m Main Circuit 9 N·m Supply Circuit 0.5 N·m
Groupe de produit	PSE45
Fonction	Soft start with torque control Soft start with voltage ramp Soft stop with torque control Soft stop with voltage ramp Kick start Sequence start Current limit Start reverse (external contactors) Automatic restart Event log
Protection Function	Electronic overload protection, EOL; Locked rotor protection; Current underload protection

## Technique UL/CSA

Maximum Operating Voltage UL/CSA	Circuit principal 600 V
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Tightening Torque  
UL/CSA

Control Circuit 4.4 in-lb  
Main Circuit 79.7  
Supply Circuit 4.4 in-lb

## Environnement

Température de l'air ambiant	Operation -25 ... +60 °C Storage -40 ... +70 °C
Indice de protection	IP00
Informations RoHS	1SFC132043D0201
Statut RoHS	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Certificats et Déclarations (Numéro de document)

CQC Certificate	CQC2011010304468093
Declaration of Conformity - CCC	2020980304001546
Déclaration de Conformité - CE	2CMT2015-005447

## Emballage

Emballage Niveau 1 Largeur	178 mm
Emballage Niveau 1 Longueur	257 mm
Emballage Niveau 1 Hauteur	288 mm
Emballage Niveau 1 Poids	3.2 kg
Emballage Niveau 1 EAN	7320500400630
Emballage Niveau 1 Unités	box 1 pièce

## Classifications

Code de classification 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 granulaire IDEA (IGCC)	4740 >> Soft starter

## Accessories

Identifiant	Description	Type	Quantity	Unit Of Measure
1SFN074307R1000	LW110 Terminal Enlargement	LW110	1	piece
1SFN124203R1000	LT140-30L Terminal Shroud	LT140-30L	1	piece
1SFA897100R1001	PSEEK EXTERNAL KEYPAD	PSEEK	1	piece
1SFA897201R1001	PSECA USB cable	PSECA	1	piece
1SFA896312R1002	PS-FBPA Fieldbus plug kit	PS-FBPA	1	piece
1SFA899300R1020	PS-MBIA Communication Module	PS-MBIA	1	piece

### Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Demarres progressifs → Démarres progressifs → PSE Softstarters → PSE45

Variateurs de vitesse → Demarres progressifs → Démarres progressifs → PSE Softstarters → PSE45

