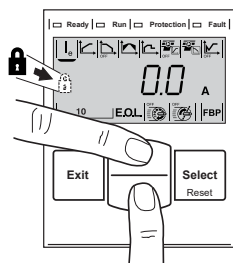


For full instructions please follow the product manual which can be found on our web

Basic settings

1. Set I_e to motor rated current (it is the most important setting)
2. Basic parameters
 - a. Initial voltage (increase if the motor is stalling or have a harsh start, default is 30%)
 - b. Start ramp time (adjust the voltage ramp if needed, default is 10 sec)
 - c. Current limit (possible to set specifically, default is 4xI_e)
 - d. Set stop parameters if needed (mostly used for pumps, default is coast to stop)

- A** LED status indicators
- B** LCD display with backlight
- C** Exit key for cancelling parameter edits and exiting one menu level.
- D** Select/Reset key for changing and storing parameter values, entering one menu level, and to reset tripping events.
- E** Select/Reset key for changing and storing parameter values, entering one menu level, and to reset tripping events.



By pressing both navigation keys for a minimum of four seconds, all parameter settings will be protected from unintentional change.

Repeating this for a period of two seconds will unlock the LCD display, and allow changes to the parameter settings.



Product manuals / 产品使用手册 / كتيبات المنتج
solutions.abb.com/softstarter-manuals

ABB Electrification Sweden AB
 SE-721 61 Västerås
 Sweden

Product information:



Revision
A

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Document number
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Doc.no. 15FC132427 M0201 A (02/23)

						it Attenzione: Tensione pericolosa! Fare riferimento alle istruzioni per l'uso. Prima di intervenire su questo dispositivo, scollegare e isolare tutte le fonti di alimentazione. Attenzione! L'installazione deve essere eseguita esclusivamente da un installatore qualificato.
						ar تحذير: جهد كهربائي خطرا راجع تعليمات التشغيل. أفضل الكهرباء وقم بتأمينها قبل العمل في هذا الجهاز تنبيه! يجب عدم التركيب إلا من خلال شخص على دراية بمجال التقنية الكهربائية.
						bg Предупреждение: Опасно напрежение! Вижте инструкциите за работа. Изключете и блокирайте захранването преди да работите с устройството. Внимание! Да се монтира само от експерт електротехник.
						cs Varování: Nebezpečné napětí! Viz návod k obsluze. Před zahájením prací na tomto zařízení odpojte a uzamkněte napájení. Pozor! Toto zařízení smí instalovat pouze osoba s elektrotechnickou odborností.
						da Advarsel: Farlig elektrisk spænding! Se installationsinstruktioner. Frakobl enheden, og afbryd strømforsyningen, før du arbejder med denne enhed. Giv agt! Installation må kun foretages af personer med elektroteknisk ekspertise.
						de Warnung: Gefährliche Spannung! Siehe Installationsanleitung. Vor dem Arbeiten Gerät ausschalten und von der Spannungsversorgung trennen. Achtung! Installation nur durch elektrotechnische Fachkraft.
						el Προειδοποίηση: Επικίνδυνη τάση! Ανατρέξτε στις οδηγίες λειτουργίας. Αποσυνδέστε και απομονώστε την παροχή ισχύος προτού ξεκινησετε τις εργασίες σε αυτή τη συσκευή. Προσοχή! Η εγκατάσταση πρέπει να γίνεται μόνο από αδειούχο ηλεκτρολόγο εγκαταστάτη.
						en Warning: Hazardous voltage! Refer to installation instructions. Disconnect and lock out power before working on this device. Attention! Installation by person with electrotechnical expertise only.
						es Advertencia: ¡Tensión peligrosa! Consulte las instrucciones de instalación. Antes de trabajar con este dispositivo, desconecte y bloquee la corriente. ¡Atención! La instalación debe ser realizada únicamente por un técnico electricista.
						et Hoiatus: Elektrilöögi oht! Lisateavet vaadake kasutusjuhendist. Enne selle seadmega töötamist ühendage lahti ja lukustage toide. Tähelepanu! Seadet tohib paigaldada ainult elektrotehnilise kogemusega isik.
						fi Varoitus: Vaarallinen jännite! Katso asennusohje. atkaise virta ja estä virran kytkeminen lukituksella ennen töiden aloittamista. Huomio! Asennuksen saa suorittaa vain henkilö, jolla on kokemusta sähkötekniikasta.
						fr Avertissement: Tension dangereuse! Consultez les consignes d'installation. Débranchez et verrouillez l'alimentation électrique avant d'entreprendre des travaux sur cet appareil. Attention! L'installation doit être effectuée uniquement par une personne ayant une expertise en électrotechnique.
						hr Upozorenje: Opasan napon! Pogledajte upute za ugradnju. Odspojite i isključite struju prije rada na ovom uređaju. Pažnja! Ugradnja je dopuštena samo osobama stručnim u području elektrotehnike.
						hu Figyelem: Veszélyes feszültség! Lásd a használati utasítást. Válassza le és zárja ki az áramellátást, mielőtt a berendezésen dolgozni kezd. Figyelem! Az üzembe helyezést csak elektrotechnikai szakértelemmel rendelkező személy végezheti el.
						zh 警告: 高压危险! 请参见操作手册。操作本设备前请断开并锁定电源。注意! 安装仅限专业电工人员。

PSE18...370

Mechanical installation



For full instructions please follow the product manual which can be found on our web

Mounting

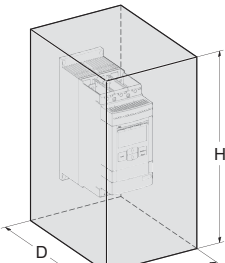
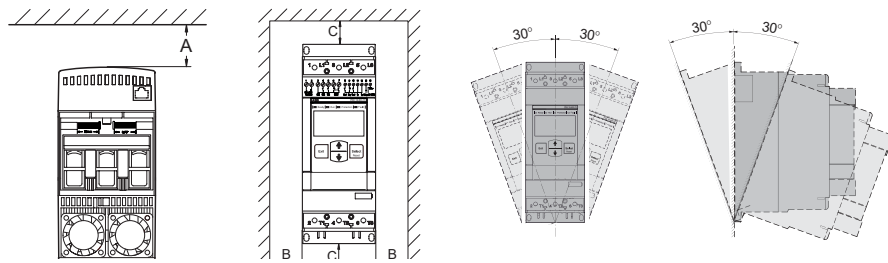
The PSE Softstarters exist in three different physical sizes which are designed to be mounted with M6 bolts, or bolts of equivalent dimension and strength. Verify the drilling plan on top of the box.

Mechanical installation

1. Follow the drilling instructions which can be found on the top part of the shipping box.
2. Make sure to have enough space according to our table below.
3. Install the product safely in place (may need two persons).
4. Make sure to mount the product in correct orientation according to the picture below.

Check that the distance to wall and front, as well as the mounting angle fulfills the requirements.

	A (mm)	B (mm)	C (mm)	A (in)	B (in)	C (in)
PSE18...370	20	10	100	0.787	0.394	3.937



In applications where the softstarter is installed in an enclosure, make sure that the enclosure size is not smaller than the minimum recommended. Select size from the applicable table for IEC or UL.

	IEC			UL			
	H (mm)	W (mm)	D (mm)	H (in)	W (in)	D (in)	min number of latches
PSE18...105	610	508	305	24	20	12	2
PSE142...370	762	610	305	30	24	12	4



Ensure a free flow of air through the product.

Risk of damage to property. Ensure that no liquids, dust or conductive parts enter the softstarter.

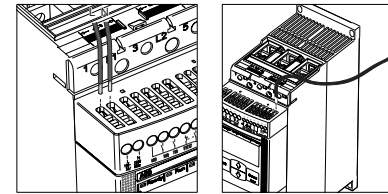
Using a too small enclosure and/or failure to follow the instructions in other ways, may result in overheating of the PSE Softstarter and operational disturbances.

PSE18...370

Electrical installation



For full instructions please follow the product manual which can be found on our web



Electrical installation

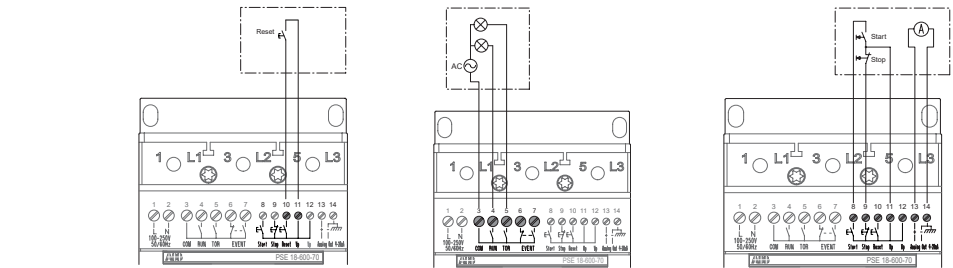
1. Connect the control supply voltage on terminals 1 and 2.
2. Connect the start/stop circuit and other I/Os.
3. Connect the mains on L1/L2/L3 and the motor to T1/T2/T3.



Hazardous voltage. Will cause death or serious injury. Turn off and lock out all power supplying this device before starting work on this equipment.



To prevent an unintended direct start it's important to first power on the control supply voltage. This will energize the bypass relays before mains are powered on to ensure the relays are in open state.



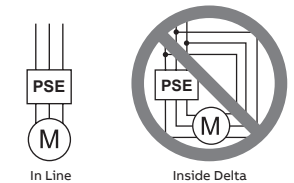
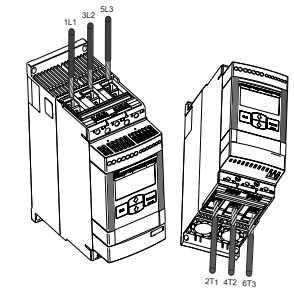
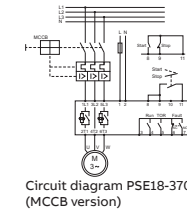
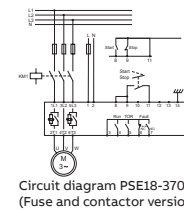
	PSE18...105 M8 8 Nm - 53 lb.in AWG12...16 Cu 75°C only 2.5...10 mm ² 2x2.5...2x10 mm ²	Using connection module M6 max 22 mm (0.866 in) 9 Nm - 80 lb.in
	AWG8...20 Cu 75°C only 10...70 mm ² 2x10...2x70 mm ²	Using connection bars max 20 mm (0.787 in) 5 mm (0.197 in)

	PSE142...170 11/6-16 UNF-2A 275 lb.in	Using connection module M8 max 24 mm (0.945 in) 18 Nm - 160 lb.in
	ATK115: AWG4 to 300kcmil Al Cu 75°C only	Using connection bars max 22 mm (0.866 in) max 10 mm (0.315 in)

	PSE18...370 3/4-16 UNF-2A 375 lb.in	Using connection module M10 max 30 mm (1.181 in) 28 Nm - 240 lb.in
	ATK300: AWG4 to 400kcmil ATK3002: AWG4 to 500kcmil or 2xAWG4 to 2x500kcmil Al Cu 75°C only	Using connection bars max 30 mm (1.181 in) max 10 mm (0.394 in)

	M3 4 x 0.8 mm (0.157 x 0.031 in) 0.5 Nm - 4.3 lb.in	AWG 10 ... 24 0.2 ... 4 mm ² 2x0.2 ... 1.5 mm ²
	M3 3.5 x 0.6 mm (0.138 x 0.024 in) 0.5 Nm - 4.3 lb.in	0.2 ... 4 mm ² 2x0.2 ... 1.5 mm ²

	M3 4 x 0.8 mm (0.157 x 0.031 in) 0.5 Nm - 4.3 lb.in	AWG 12 ... 24 0.2 ... 2.5 mm ² 2x0.2 ... 1.5 mm ²
	M3 3.5 x 0.6 mm (0.138 x 0.024 in) 0.5 Nm - 4.3 lb.in	0.2 ... 2.5 mm ² 2x0.2 ... 1.5 mm ²



Connecting Softstarters PSE18...PSE370 Inside Delta will cause damage to the equipment, and there is a risk of death or serious injury.