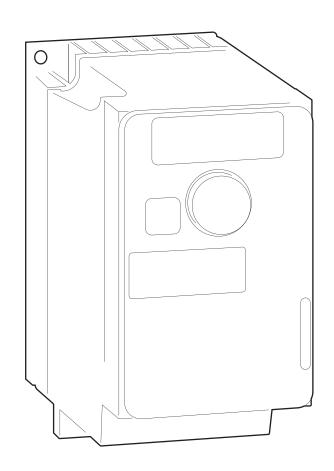


SFC

SFC PS 0,37-7,5 kW



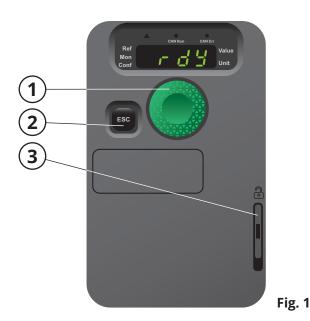


General

This manual is a quick aid for easy programming of the frequency converter together with the potentiometer **SFC PS** and shall not be seen as a complete product manual.

Function

All programming is executed on the keys at the front display **Fig. 1**. The jog dial (1) is used for navigating the menus and to select or confirm information. The ESC key (2) quits a menu/ parameter or clears and reverts the value. The front panel is opened via button (3).



Parameter choice

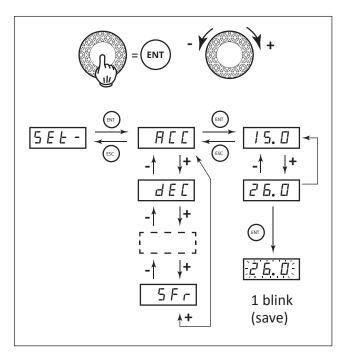
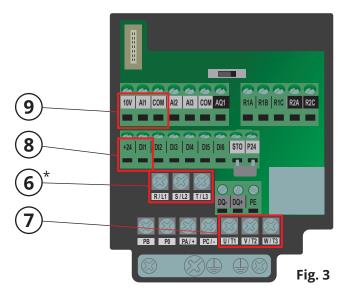


Fig. 2

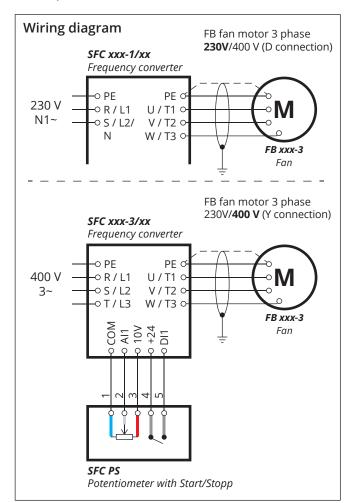
Electrical wiring

The supply voltage is connected to terminal (6) **Fig 3**. The supply cable for the fan motor is connected to terminal (7). The start signal is wired between DI1 and +24 at terminal (8). The signal from the potentiometer is wired between COM, AI1 and 10V at terminal (9).



* When the supply is 1 phase, the terminals are marked "R/L1" and "S/L2/N".

When the supply is 3 phase, the terminals are marked "R/L1", "S/L2" and "T/L3".



Programming

Program all parameters as per the programming guide, see page 3. Start from the top (and go down) accordingly. During the programming, the fan must not receive any start signal. This means that DI1 and +24 (8) cannot be a closed circuit.

Note! The green parameters can be changed, to optimise current system. The red parameters can be found on the motor.

PROGRAMMING GUIDE							
Menu	Submenu	Parameter	Function	Factory settings	Recommen- ded value	Chosen value	
[onF	FULL	-	Access to configuration	-	-		
dr[-	E E E	-	Variable torque	5Ł d	UF 9		
51 Π -	-	bFr	Motor frequency (Hz)	50	Varies		
51 Π <i>-</i>	-	Un5	Nominal motor voltage (V)	-	Varies		
51 Π <i>-</i>	-	Fr5	Nominal motor frequency (Hz)	50.0	Varies		
51 Π <i>-</i>	-	nΕr	Nominal motor current (A)	-	Varies		
51 Π <i>-</i>	-	nSP	Nominal motor speed (rpm)	1400	Varies		
51 Π <i>-</i>	-	ACC	Acceleration (s)	3.0	5.0		
51 Π <i>-</i>	-	dE C	Retardation (s)	3.0	5.0		
51 Π-	-	LSP	Min. frequency (Hz)	0.0	15.0		
51 Π <i>-</i>	-	HSP	Max. frequency (Hz)	50.0	500		
51 Π <i>-</i>	-	LEH	Thermal motor protection (A) = motor current	-	Varies		
dr[-	A59-	ПРС	Motor parameter choice	nPr	E 0 5		
dr[-	R59-	0.05	Motor's Cos Phi	-	Varies		
dr[-	-	5Fr	Switch frequency (kHz)**	4.0	15		
1 _ 🛛 -	-	FEF	2 wire type	Ern	LEL		
FUn-	5 <i>EE</i> -	5 <i>E</i> E	Stop type	5 <i>E</i> E	n5E		
FLE-	FLr-	FLr	Soft restart	nΩ	YE 5		

^{**} Only to be changed when there is unusual noise from the motor.

Default reset

When resetting to the factory settings, please proceed as below:

If the display doesn't show $rd\mathcal{Y}$, press **ESC** until it does. Enter menu EanF and select parameter FE5-. Change the value from FE5I to $Fr\mathcal{Y}-$, confirm with **ENT**. Change $RLL\mathcal{Y}$ to $RLL\mathcal{Y}$ by pressing **ENT**. Go back one step in the menu with **ESC** and change from $Fr\mathcal{Y}-$ to FF5. Press **ENT** and change nB to FF5 by pressing and holding **ENT** for 5 seconds.

The frequency inverter will now have the initial factory settings and is ready for programming again.

Troubleshooting



Troubleshooting when power is on, should only be performed by an authorised electrician.

Information that makes it easier to identify occurred problems that are easy to solve can be found in the troubleshooting guide. Always go through troubleshooting guide before contacting FUMEX.

TROUBLESHOOTING GUIDE						
Symtom	Probable cause	Recommended measure				
	DI1 and +24 are closed.	Remove wiring.				
1. Programming failure.	The parameters are not programmed in the correct order.	Program the parameters, as per the programming guide from the top to the botto				
2. The system does not work.	The wiring is not done as per the wiring diagram.	Check the wiring.				
3. Performance loss of the fan.	Wrong rotation direction of the fan.	Check rotation direction.				

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