



Frelink-4f



Single Phase Frequency Controller

The Frelink-4f enables efficient single phase fan speed control based on a 0-10V input signal. The frequency drive ensures energy savings up to 60%. It extends the motor lifetime by operating it at significantly lower temperatures. Minimum and maximum frequency is adjustable. The Frelink-4f is equipped with an economy mode. The maximum output current is 3.5 Amps.

Benefits

- High return on investment:
 - Saves energy up to 60%
 - Extends fan motor lifetime
- Smooth fan operation
- Easy to install
- Easy to operate
- No external filters required
- Allowing up to 70 meters shielded power cable
- Applicable for both new and existing ventilation systems

Features

- Continuous variable speed control for fans
- Economy mode: automatic switching directly to the energy network after running 3 minutes at full frequency. (50Hz or 60Hz)
- Alarm relay contact
- 12V dc output for direct potentiometer control
- Built-in voltage, current and temperature protection
- Single-phase in / single-phase out
- 100% override switch
- Status read-out display
- Manual mode: run at a set frequency

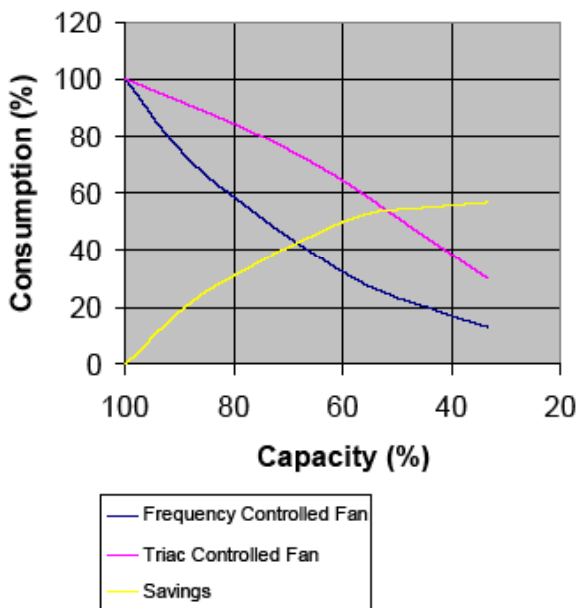


Inputs	Adjustments	Outputs
Control signal <ul style="list-style-type: none"> • 0-10 V or 10-0 V • Potentiometer Pulse input <ul style="list-style-type: none"> • direction correction of motor turning 	<ul style="list-style-type: none"> • Minimum frequency • Maximum frequency • Economy mode (on/off) 	Fan motor connection 12 V dc for direct potentiometer speed control Alarm relay contact

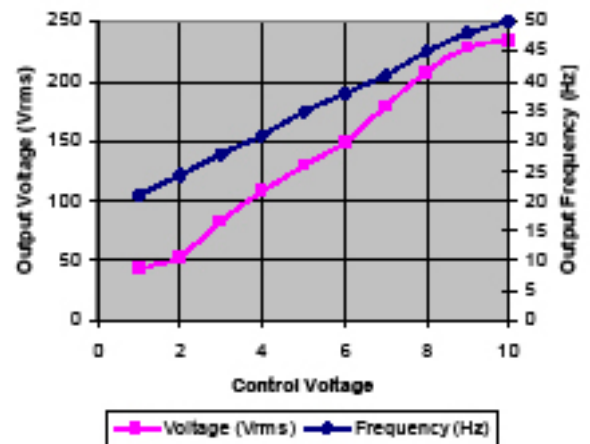
Specifications Frelink-4f

Definition	Min.	Typ.	Max.	Units	Notes
Controller Type					Frequency controller
Fuse F1 (power supply)		6,3		A	T, size 5 x 20 mm
Mains supply	192	230	264	V	Single-phase
Mains frequency	50		60	Hz	
Output power			750	VA	
Overload capacity			150 300	% %	60 seconds 20 seconds
Fan output voltage	45		Vin	V	Function of frequency
Fan output current	0		3,5	A	
Fan output frequency	10		70	Hz	
Output cable length			75	mtr	Shielded cable required
Input speed control	0 10		10 0	V V	Adjustable with DIP switch
Control Input Impedance	20K			Ω	
Control Input cable length			300	mtr	Shielded cable recommended
Output current 12V output			20	mA	
Optional potentiometer value	1K	10K	50K	Ω	For manual control
Alarm relay contact	1		2	A mA	at 240V at 12V
Housing					IP54 plastic housing
Weight (unpacked)		2,8		kg	
Dimensions (W x H x D)		296 x 225 x 104		mm	
Operational temperature	0		40	°C	
Storage temperature	-20		60	°C	
Ambient relative humidity	0		90	%	

Frequency Control Energy Savings



Control Diagram Frelink-4f



Vostermans Ventilation developed the open modular system Mf-Net for various applications. Mf-Net is applied in agricultural and industrial market segments.



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Vostermans Ventilation B.V. develops, manufactures and distributes the full line of:

