Radial fan systems for all branches of industry

System requirement after customer specifications

Specialist for stainless steels and nickel materials

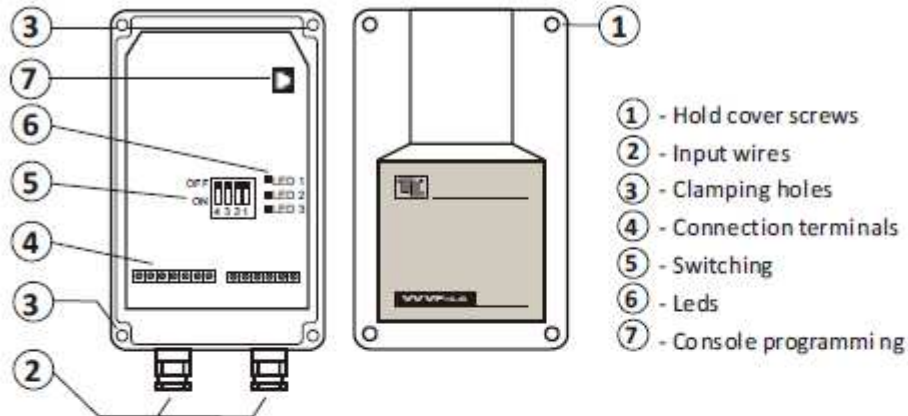**Industrie-Ventilatoren.de**
Dassler
www.dasslerventilatoren.info

TECHNICAL DATA

- Voltage 230V 50Hz-60Hz
- Control by potentiometer / 0-10V Input
- Enclosure IP 40 (IP54 Option)
- EMC filter according to EN55014 standard
- Programable parameters via console (1)

MODEL	OUTPUT MAX. CURRENT	DIMENSIONS (mm)
VFLC I 230V 1A	1A / PHASE	205x127x95
VFLC I 230V 2A	2A / PHASE	205x127x95
VFLC I 230V 3.5A	3.5A / PHASE	255x170x180
VFLC I 230V 5.5A	5.5A / PHASE	255x170x180
VFLC I 230V 7.5A	7.5A / PHASE	255x170x180
VFLC I 230V 10A	10A / PHASE	255x170x200

① - Hold cover screws
② - Input wires
③ - Clamping holes
④ - Connection terminals
⑤ - Switching
⑥ - Leds
⑦ - Console programming

MOUNTING INSTRUCTIONS

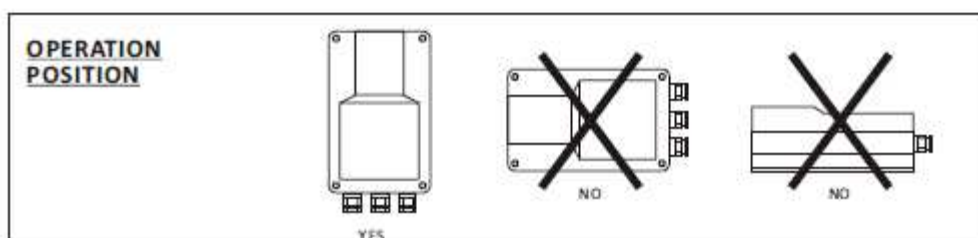The under detailed rules must be strictly followed for the correct use of the equipment:

1 - Take off the box cover loosing 4 screws . ①

2 - Connect the earth, the fans and 230Vac line to terminal according to the included scheme ④

NOTES:
- When frequency inverter is switched off wait 5 minutes aprox. before start to operation watching that LED 1 is OFF

- It is recommended to install protection fuses on the frequency inverter input 2.5 times superior to the max current for phase.

ATTENTION

- The operating position must be as shown below.
- It´s essential to connect the earth line to the inverter.
- don't assumes the damages due a faulty installation of the regulator.
- The main line of regulator and the output to the fans must have the suitable section by the maximum current of the regulator and the installation mainly has to comply with the actual safety standards.
- (1) Console Terminal TER-03 Code: 089095

OPERATION POSITION

YES   NO   NO

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PROGRAM SWITCHING

Switch 1	RESTART
OFF	MANUAL
ON	AUTOMATIC

*

Switch 2	STOP MODE
OFF	FREE
ON	DECELERATION

*

Switch 3	NOT USED

Switch 4	V/F RATIO
OFF	QUADRATIC (2)
ON	LINEAR

*

* Factory settings
(2) Pumps and fans

LED STATUS
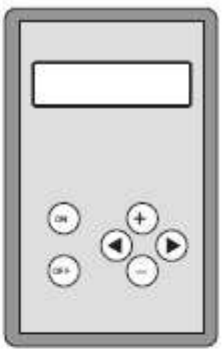
LED1	POWER
LED2	ALARM
LED3	ON/OFF

CONNECTION DIAGRAM VFLC I 230V 1A/2A

POTENTIOMETER CONNECTION

NOTE: OUT and IN2 not used

0-10V INPUT CONNECTION

NOTE: OUT and IN2 not used

CONNECTION DIAGRAM VFLC I 230V 3.5A/5.5A/7.5A/10A

POTENTIOMETER CONNECTION

0-10V INPUT CONNECTION

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PROGRAMMING CONSOLE

- To enter PAMETERS MENU, pres   twice
  - To select parameters press   ◀ ▶
  - To change parameters press   ⊕ ⊖
- To exit PARAMETERS MENU press   OFF

MAIN MENU

DATA	EXPLANATION	UNITS
Fo	Real time Output Frequency	Hz
Io	Real time Output phase Current (*)	Amp
Fp	Setting Frequency (depends on the input 0_10V) $Fp = Fmin + (Fmax-Fmin) \times (input\ 0\_10V)/10$	Hz
Vo	Real time Output Voltage	% of input voltage

PARAMETERS MENU

VFLC					
1A	2A	3.5A	5.5A	7.5A	10A
1A	2A	3.5A	5.5A	7.5A	10A

DATA	EXPLANATION	UNITS	Factory setting
Max. Frequency	Frequency when the Input (0-10V) = 10V	Hz	50,0
Min. Frequency	Frequency when the Input (0-10V) = 0V	Hz	5,0
Freq. of Vmax	Frequency at which Vout = Max. output voltage	Hz	50,0
Freq. of Vmin	Frequency at which Vout = Min. output voltage	Hz	5,0
Max. Output Volt	Maximum Output voltage	% of input voltage	100
Min. Output Volt	Minimum Output voltage	% of input voltage	10
Max. Current	Limit of Output phase Current	Amp	depend on model
PWM Frequency	Switching frequency of Inverter	KHz	7,3
Accel. Time	Acceleration time (stop-50Hz)	s	5
Decel. Time	Deceleration time (50Hz-stop)	s	5

(*) the accuracy depends on the efficiency and PF of the motor