



Product designation

Rated output voltage

Rated output current

Rated output power

Rated output power

**EMC** filter

Product type designation General characteristics

Rated power supply voltage

# UNITATE DE PUTERE, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR EMC INCORPORAT CAT. C2, 5.5 KW

Variable speed drives VLB3
400480VAC 50/60Hz
Three-phase 0 480VAC 0-599H
13
5.5
7.5 (Heavy load) 10 (Standard load)
Built-in EMC suppressor cat. C2

VAC

Α

kW

HP

		C2
Technical features		
Input type		Three-phase
Rated mains voltage	VAC	400480
Operating mains voltage range	VAC	340528
Rated mains frequency	Hz	50/60
Operating mains frequency range	Hz	4565
Rated mains current without mains choke		17.2 (heavy load) / 18.3 (standard load)
Rated mains current with mains choke		12.4 (heavy load) / 14.5 (standard load)
Output type		Three-phase
Output voltage range	VAC	0480
Output frequency range	Hz	0599
Current overload	%/s	150% for 60s; 200% for 3s
Apparent output power		8.7 (heavy load) / 10.5 (standard load)
Power loss		4kHz: 145W (heavy load) / 173 (standard load)
Brake chopper		Yes
Switching frequency		216kHz
Max motor cable length		
Shielded		

Without EMC category

Category C1

Category C2

100

3

20

m

m





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	Category C3	m	35
Unshielded	Without EMC category	m	200
Functions	Without Livio category	- 111	200
Motor control modes			V/f linear, quadratic torque, sensorless vector control, ECO mode, servo control with encoder feedback, multipoint V/f curve, V/f closed loop control with encoder feedback, torque setpoint, sensorless
Speed reference signals			External potentiometer 010kΩ Voltage signals: 0 10VDC or -10 +10VDC Current signals: 0/4 20mA Buttons on front keyboard Door-mount installation kit 15 preset speeds via digital inputs Motor potentiom
3-wire control			Yes
S-shape curves			Yes
Slip compensation			Yes
Flying restart			Yes
Access to DC bus			Yes
DC braking			Yes
DC injection at start			Yes
PID control			Yes, with sleep and rinse function
Sequencer (programmable frequency/time cycles)			Yes
Preset speeds			Yes
Motorpotentiometer			Yes
Different parameter configuration sets			Yes
Parameters changeover function			Yes
Favorite parameters menu			Yes
Autotuning			No
Safe torque Off (STO) safety function			Optional
PTC probe input			Yes
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# UNITATE DE PUTERE, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR EMC INCORPORAT CAT. C2, 5.5 KW

Protections		Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse Multi-pump PID
Special funct.		control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Input and Output		
Number of digital input		5
Digital input type		Selectable PNP or NPN logic
Number of digital output	Nr.	2
Digital output arrangement		1 relay output with changeover contact (C/O- SPDT) + 1 digital output
Output contacts ratings		Relay output: 3A 250VAC Digital output: 100mA max 30VDC
Number of analog input	Nr.	2
Analog input type		Configurable 0/210VDC, -10+10VDC, 05VDC, 0/4 20mA
Number of analog output		1
Analog output type		configurable as 010VDC, 0 5VDC, 2 10VDC, 0/4 20mA
Ambient conditions		
Temperature Operating temperature		-10 +55

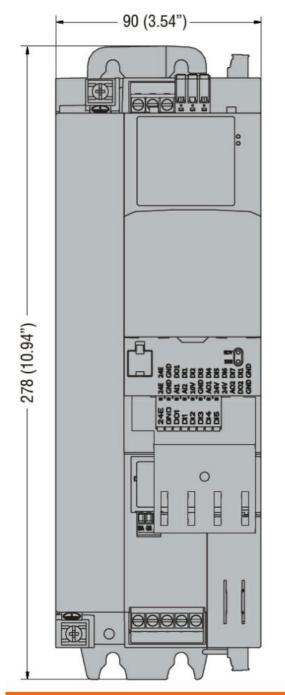


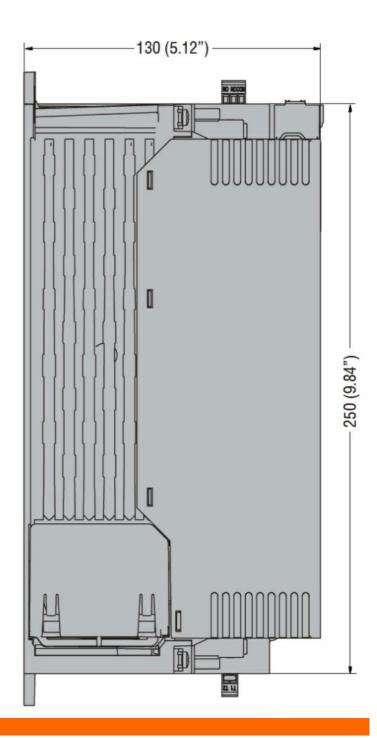


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	Current derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
Storage temperature			
	min	°C	-25
	max	°C	+60
Relative humidity		%	595% (with no condensing)
Max altitude		m	4000m (over 1000m derate the rated current by 5%/1000m)
Maximum Pollution degree			2
Overvoltage category			III up to 2000m altitude (II above 2000m)
Housing			
Installation position			Vertical
IP degree of protection			IP20
Dimensions (W x H x D)		mm	90 x 278 x 130
Weight		Kg	2.3
Dimensions			







## Certifications and compliance

Compliance

CSA 22.2 n°274

EN 61800-5-1

UL61800-5-1

Certificates

CSA

cULus

EAC

RCM

ETIM classification

**ETIM 8.0** 

EC001857 -Frequency converter =< 1 kV