			E SE
Product designation			Variable speed
-			drives
Product type designation General characteristics			VLB3
Rated power supply voltage			400480VAC
			50/60Hz
Rated output voltage		VAC	Three-phase 0 480VAC 0-599Hz
Rated output current		Α	5.6
Rated output power		kW	2.2
Rated output power		HP	3 (heavy load)
EMC filter			Built-in EMC suppressor cat. C2
Communication port			RS485, Modbus- RTU
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			7.8
Rated mains current with mains choke			5.3
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			3.6 (heavy load)
Power loss			4kHz: 66W (heavy load)
Brake chopper			Yes
Switching frequency			216kHz
Max motor cable length			
Shielded			
	Without EMC category	m	50m / 100m (40°C max, switching frequency 4kHz max)
	Category C1	m	3
	Category C2	m	20
	Category C3	m	35
Unshielded	Without EMC category	m	200
	_		

Functions	
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





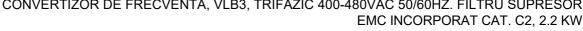
		Overcurrent
		Output short
		circuit and earth/ground
		· ·
Protections		leakage
Protections		Overvoltage
		Undervoltage Phase loss Motor
		heat overload
		(i2t) Overspeed
		Speed reverse
		· · · · · · · · · · · · · · · · · · ·
		Multi-pump PID control (1 main
		pump frequency
		regulated + 2
Special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

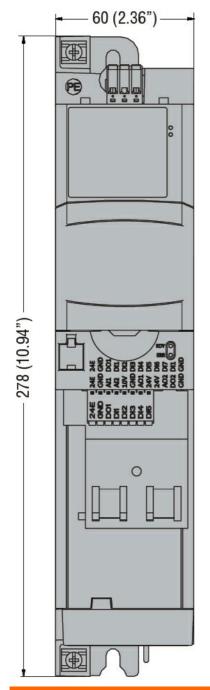


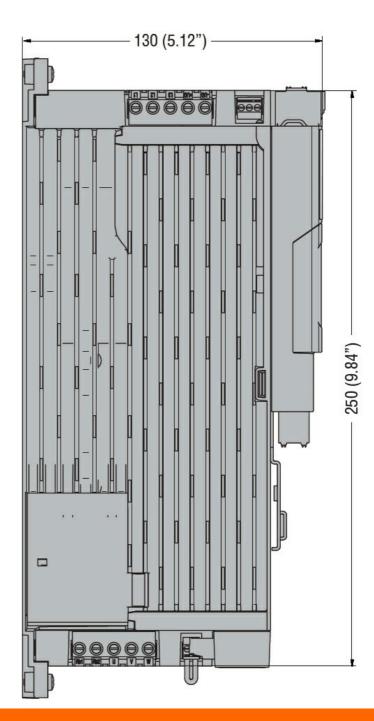


C	urrent derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
Storage temperature			
	min	°C	-25
	max	°C	+60
Relative humidity		%	595% (with no condensing)
Max altitude		m	4000m (over 1000m derate the rated current by 5%/1000m)
Maximum Pollution 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	60 x 278 x 130
Weight		Kg	1.38
Dimensions			

CONVERTIZOR DE FRECVENTA, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR

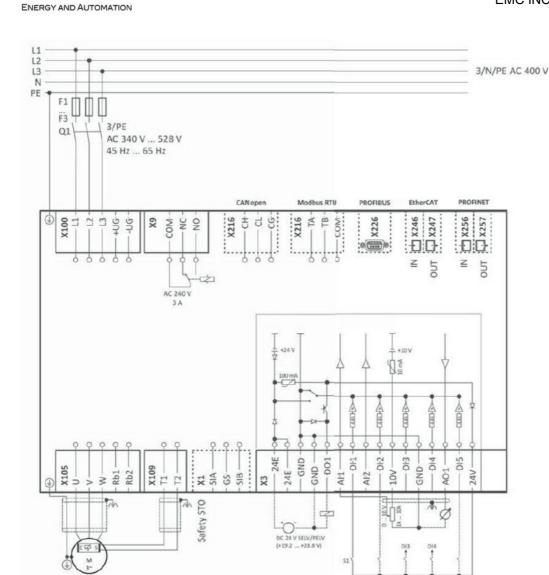






Wiring diagrams

CONVERTIZOR DE FRECVENTA, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR EMC INCORPORAT CAT. C2, 2.2 KW



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