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Product designation			Variable speed
-			drives
Product type designation			VLB3
General characteristics			400 400\/40
Rated power supply voltage			400480VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0… 480VAC 0-599Hz
Rated output current		А	47
Rated output power		kW	22
Rated output power		HP	30 (Heavy load) / 40 (Standard 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 with mains choke			42 (heavy load) / 55 (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			32 (heavy load) / 38 (standard load)
Power loss			4kHz: 520W (heavy load) / 623 (standard load)
Brake chopper			Yes
Switching frequency			216kHz
Max motor cable length			
Shielded			
	Without EMC category	m	100
	Category C1	m	3
	Category C2	m	20

Category C2

Category C3

20

35

m

m

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VLB30220A480 CONVERTIZOR DE FRECVENTA, VLB3, TRIFAZIC 400-480VAC 50/60HZ. FILTRU SUPRESOR EMC INCORPORAT CAT. C2, 22 KW

Unshielded Without EMC category m 200 Functions V/f linear, quadratic torque, sensorless vector control, ECO mode, servo control with encoder Motor control modes feedback, multipoint V/f curve, V/f closed loop control with encoder feedback, torque setpoint, sensorless External potentiometer 0...10kΩ Voltage signals: 0... 10VDC or -10... +10VDC Current signals: 0/4... Speed reference signals 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 Yes Slip compensation Flying restart Yes Access to DC bus Yes DC braking Yes DC injection at start Yes Yes, with sleep **PID** control and rinse function Sequencer (programmable frequency/time cycles) Yes Preset speeds Yes Motorpotentiometer Yes Yes Different parameter configuration sets Parameters changeover function Yes Favorite parameters menu Yes No Autotuning Safe torque Off (STO) safety function Optional Yes

PTC probe input

VLB30220A480

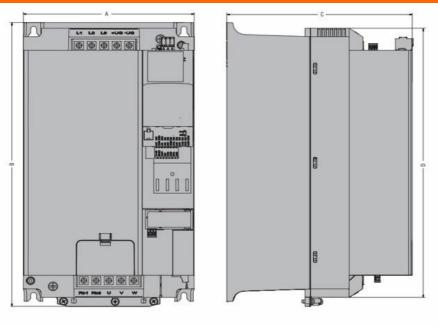
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Protections			Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse
Special funct.			Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Input and Output			_
Number of digital input		Nr.	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 Relay output: 3A
Output contacts ratings			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		Nr.	1
Analog output type			configurable as 010VDC, 0 5VDC, 2 10VDC, 0/4 20mA
Ambient conditions			
Temperature Operating temperature	min max	℃ ℃	-10 +55



	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	Batch <=D 204.5 x 366 x 222 Batch >=E 180 x 384 x 165
Weight		Kg	10.65
Dimensione			

Dimensions



Batch number	A	В	С	D
letter D or lower	204,5	366	222	347
letter E or greater	180	384	165	342

## Wiring diagrams

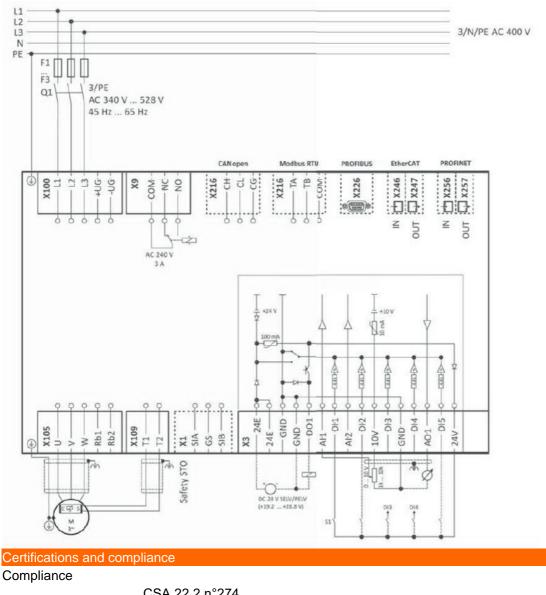
VLB30220A480



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

ENERGY AND AUTOMATION

EMC INCORPORAT CAT. C2, 22 KW



	CSA 22.2 n°274
	EN 61800-5-1
	UL61800-5-1
Certificates	
	CSA
	cULus
	EAC
	RCM
<b>FTIM</b> classification	

**ETIM 8.0** 

EC001857 -Frequency converter =< 1 kV