



Product designation			Variable speed
-			drives
Product type designation			VLB3
General characteristics			400 400 440
Rated power supply voltage			400480VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0 480VAC 0-599Hz
Rated output current		Α	13
Rated output power		kW	5.5
Rated output power		HP	7.5 (Heavy load) / 10 (Standard load)
EMC filter			Built-in EMC suppressor cat. 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	m	100
	Category C1	m	3
	Category C2	m	20





## UNITÉ DE PUISSANCE TRIPHASÉ CAT C2 POUR VLB3 3P 5.5KW 400...480VAC

	Category C3	m	35
Unshielded	Without EMC optogony	m	200
Functions	Without EMC category	m	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





## UNITÉ DE PUISSANCE TRIPHASÉ CAT C2 POUR VLB3 3P 5.5KW 400...480VAC

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

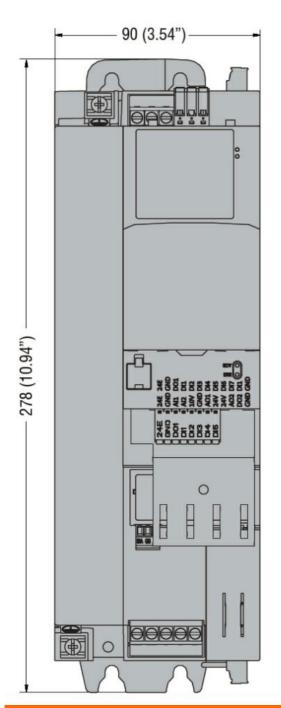


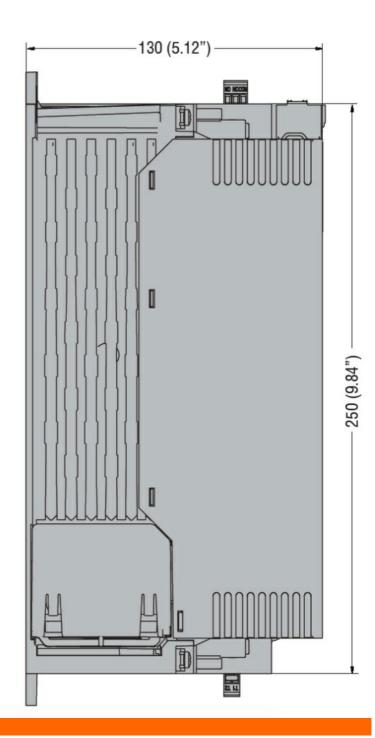


## UNITÉ DE PUISSANCE TRIPHASÉ CAT C2 POUR VLB3 3P 5.5KW 400...480VAC

	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