			ección de la companya
Product designation			Variable speed drives
Product type designation			VLB3
General characteristics			
Rated power supply voltage			400480VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0 480VAC 0-599Hz
Rated output current		Α	3.9
Rated output power		kW	1.5
Rated output power		HP	2 (heavy load)
EMC filter			Built-in EMC suppressor cat. C2
Technical features			
Input type		1/40	Three-phase
Rated mains voltage		VAC	400480
Operating mains voltage range		VAC	340528
Rated mains frequency		Hz Hz	50/60 4565
Operating mains frequency range Rated mains current without mains choke		ПZ	5.4
Rated mains current without mains choke			3.7
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			2.6 (heavy load)
Power loss			4kHz: 48W (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
	Without EMC category	m	200
Functions			





Motor control modes Motor control modes feedback, multipoint V/f curve, V/f closed loop control with encoder feedback, torque setpoint, sensorless
$\begin{tabular}{lll} External & potentiometer & $010k\Omega$ 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 & $100000000000000000000000000000000000$
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
Safe torque Off (STO) safety function Optional
PTC probe input Yes





			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
			regulated + 2
Special funct.			auxiliary pumps
			activated in direct
			mode in case of
			necessity)
Input and Output			necessity)
Input and Output Number of digital input		Nr.	5
Number of digital input		INI.	Selectable PNP
Digital input type			
			or NPN logic
Number of digital output		Nr.	2
			1 relay output
			with changeover
Digital output arrangement			contact (C/O-
			SPDT) + 1 digital
			output
			Relay output: 3A
O to the standards and an			250VAC Digital
Output contacts ratings			output: 100mA
			max 30VDC
Number of analog input		Nr.	2
Trainibor of analog input			Configurable
Analanianuttus			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			
- L	min	°C	-10
		°C	+55
	max	J	100

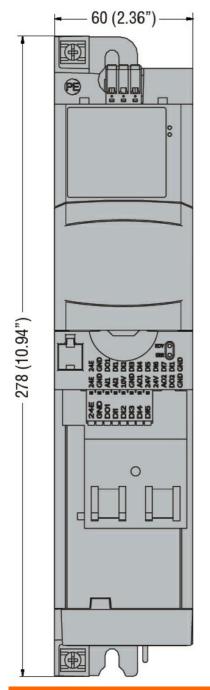


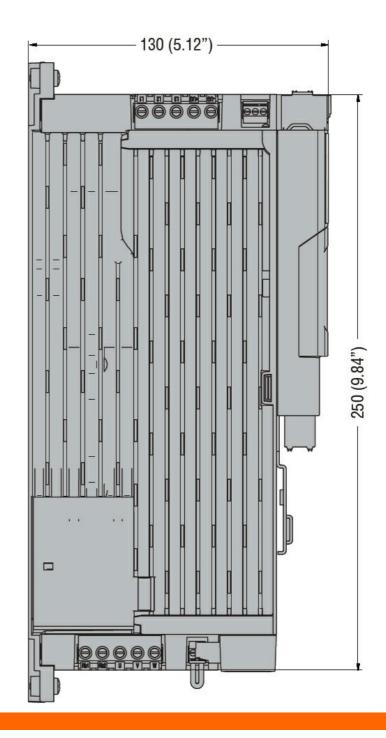


	Current derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
Storage temperature			
	min	°C	-25
	max	°C	+60
Relative humidity		%	595% (with no condensing)
Max altitude		m	4000m (over 1000m derate the rated current by 5%/1000m)
Maximum Pollution 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	60 x 278 x 130
Weight		Kg	1.35
Dimensions			

ENERGY AND AUTOMATION

POWER UNIT, VLB3... TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN, CAT. C2, 1.5KW





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