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	А	9.5
Rated output power	kW	4
Rated output power	HP	5 (Heavy load) / 7.5 (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		12.5 (heavy load) / 14 (standard load)
Rated mains current with mains choke		9 (heavy load) / 11 (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		6.4 (heavy load) / 8 (standard load)
Power loss		4kHz: 110W (heavy load) / 133 (standard load)
Brake chopper		Yes
Switching frequency		216kHz
Max motor cable length		

Shielded





	Without EMC category Category C1 Category C2 Category C3	m m m m	50m / 100m (40°C max, switching frequency 4kHz max) 3 20 35
Unshielded	<u> </u>		
	Without EMC category	m	200
Functions			
Motor control modes Speed reference signals			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 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 Flying restart			Yes Yes
Access to DC bus			Yes
DC braking			Yes
			Yes
DC injection at start			
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





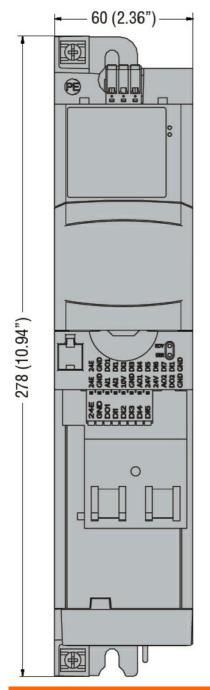
Safe torque Off (STO) safety function		Optional
PTC probe input		Yes
		Overcurrent
		Output short
		circuit and
		earth/ground
		leakage
Protections		Overvoltage
		Undervoltage
		Phase loss Motor
		heat overload
		(i2t) Overspeed
		Speed reverse
		Multi-pump PID
		control (1 main
		pump frequency
Special funct.		regulated + 2
Special funct.		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
		1 relay output
		with changeover
Digital output arrangement		contact (C/O-
		SPDT) + 1 digital
		output
		Relay output: 3A
Output contacts ratings		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
A THE A THE STATE OF THE STATE		20mA
Ambient conditions		
Temperature Operating temperature		
Operating temperature		10
	min °C	-10
	max °C	+55

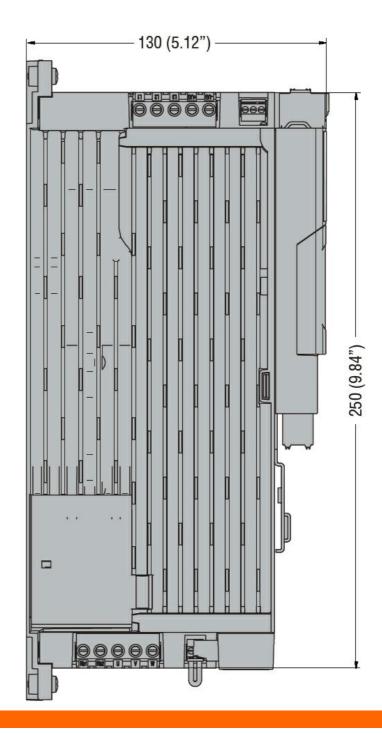




	Current derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
Storage temperature			
	min	°C	-25
	max	°C	+60
Relative humidity		%	595% (with no condensing)
Max altitude		m	4000m (over 1000m derate the rated current by 5%/1000m)
Maximum Pollution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