



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	1.3
Rated output power	kW	0.4
Rated output power	HP	0.5 (heavy load)
EMC filter		Built-in EMC suppressor cat. C1/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		1.8
Rated mains current with mains choke		1.4
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		0.9 (heavy load)
Power loss		4kHz: 20W
		(heavy load)
Brake chopper		Yes
Switching frequency		216kHz
Max motor cable length		
Shielded		
Without EMC category	m	15
Category C1	m	3
Category C2	m	15
Category C3	m	15
Unshielded Without EMC category	m	30

Functions



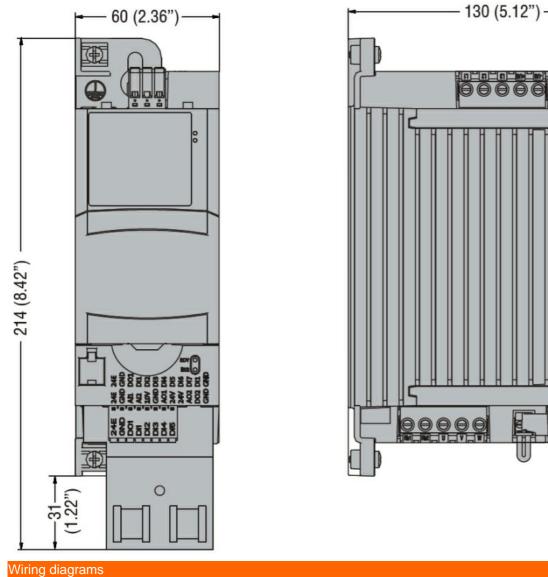
Motor control modes	V/f linear, quadratic torque, sensorless vector control, ECO mode, servo control with encoder feedback, multipoint V/f curve, V/f closed loop control with encoder feedback, torque setpoint, sensorless
Speed reference signals	External potentiometer 010kΩ Voltage signals: 0 10VDC or -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

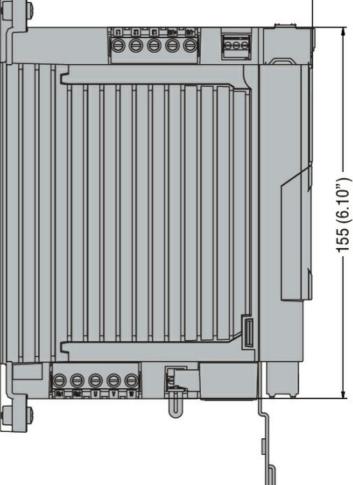


Protections Special funct.		Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of
		necessity)
Input and Output Number of digital input	Nr.	5
	INI.	Selectable PNP
Digital input type		or NPN logic
Number of digital output	Nr.	2
Digital output arrangement		1 relay output with changeover contact (C/O- SPDT) + 1 digital output
Output contacts ratings		Relay output: 3A 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	• ~	10
min max	°C ℃	-10 +55
Current derating	0	2.5%/°C over 45°C
Storage temperature		
min	°C	-25
max	°C	+60
Relative humidity	%	595% (with no condensing)



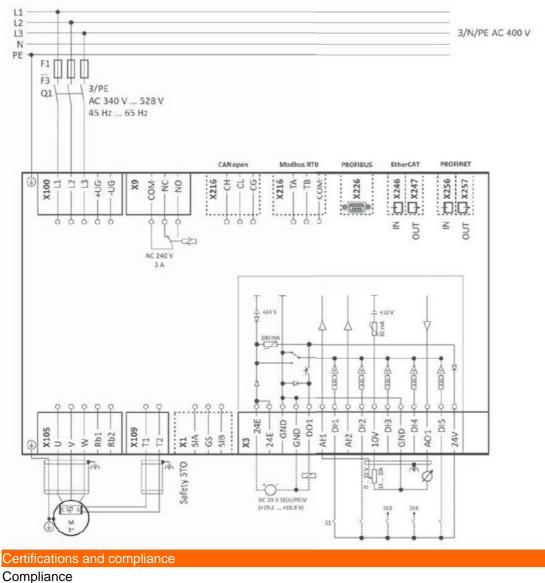
Max altitude	m	4000m (over 1000m derate the rated current by 5%/1000m)
Maximum Pollution degree		2
Overvoltage category		III up to 2000m altitude (II above 2000m)
Housing		
Installation position		Vertical
IP degree of protection		IP20
Dimensions (W x H x D)	mm	60 x 214 x 130
Weight	Kg	0.85
Dimensions		







VLB30004A480 FREQUENZUMRICHTER 3 PHASEN 0.37 KW BEI 400V MIT FILTER UND RS485



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