



Product designation			Variable speed drives
Product type designation			VLB3
General characteristics			VED3
Rated power supply voltage			400480VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0 480VAC 0-599Hz
Rated output current		А	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			400
	Without EMC category	m	100
	Category C1	m	3

Category C2

20

m



VLB30055A480XX POWER UNIT, VLB3... TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN, CAT. C2, 5.5KW

Category C3 35 m Unshielded Without EMC category 200 m 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 $0...10k\Omega$ 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 Yes S-shape curves Slip compensation Yes 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 Different parameter configuration sets Yes Parameters changeover function Yes Yes Favorite parameters menu Autotuning No Safe torque Off (STO) safety function Optional PTC probe input Yes

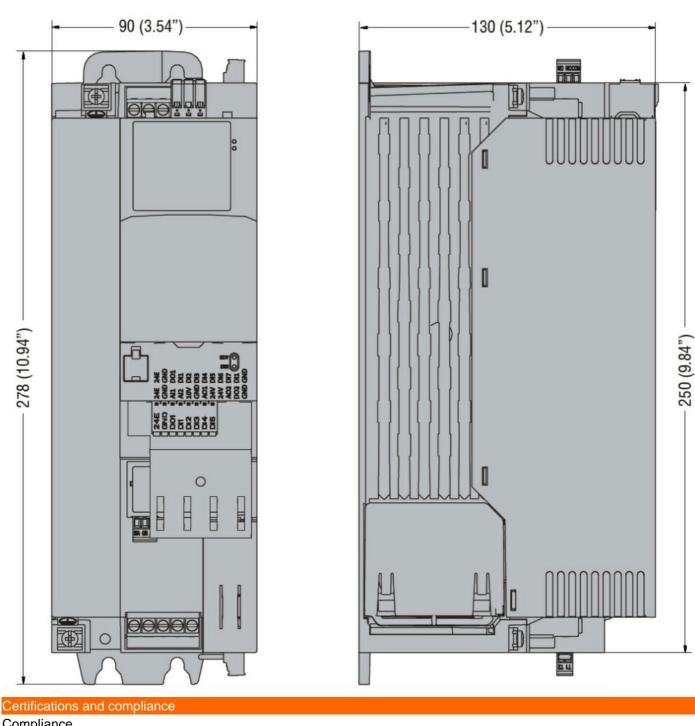


Protections			Overcurrent Output short circuit and earth/ground leakage Overvoltage
			Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse
Special funct.			Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Input and Output		N I.e	5
Number of digital input Digital input type		Nr.	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
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			
	min max	°C °C	-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	90 x 278 x 130
Weight		Kg	2.3
Dimensions			





Compliance		
	CSA 22.2 n°274	
	EN 61800-5-1	
	UL61800-5-1	
Certificates		
	CSA	
	cULus	
	EAC	
	RCM	
ETIM classification		
		EC001857 -
ETIM 8.0		Frequency
		converter =< 1 kV