



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	5.6
Rated output power	kW	2.2
Rated output power	HP	3 (heavy load)
EMC filter		Built-in EMC suppressor cat. 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		7.8
Rated mains current with mains choke		5.3
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		3.6 (heavy load)
Power loss		4kHz: 66W (heavy load)
Brake chopper		Yes
Switching frequency		216kHz
Maxy marker askin in an ath		

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
Unshielded			
	Without EMC category	m	200



Functions

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…10kΩ Voltage
	signals: 0… 10VDC or -10…
	+10VDC Or -10
	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
S-shape curves	Yes
Slip compensation	Yes
Flying restart	Yes
Access to DC bus	Yes
DC braking DC injection at start	Yes 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
Favorite parameters menu	Yes
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		Nr.	5
Number of digital input Digital input type		INI.	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 Relay output: 3A 250VAC Digital
Output contacts ratings			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



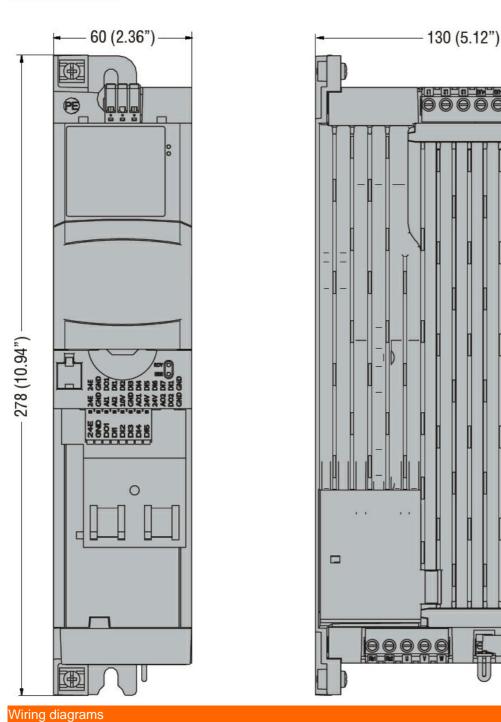
Storage temperature min °C -25 max °C +60 Relative humidity % 595% (with no condensing) Max altitude % 4000m (over 1000m densite) Max altitude m 1000m derate the rated current by 5%/1000m) Maximum Pollution degree 2 Overvoltage category III up to 2000m altitude (II above 2000m) Housing Vertical IP degree of protection IP20 Dimensions (W x H x D) mm 60 x 278 x 130 Weight Kg 1.38		Current derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
max°C+60Relative humidity%595% (with no condensing)Max altitude%4000m (over 1000m derate the rated current by 5%/1000m)Maximum Pollution degree2Overvoltage categoryIII up to 2000m altitude (II above 2000m)HousingVertical IP degree of protectionIP degree of protectionIP20Dimensions (W x H x D)mmWeightKg1.38	Storage temperature			
Relative humidity%595% (with no condensing)Max altitudem4000m (over 1000m derate the rated current by 5%/1000m)Maximum Pollution degree2Maximum Pollution degree2Overvoltage categoryIII up to 2000m altitude (II above 2000m)HousingVertical IP degree of protectionIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg1.38		min	-	
Kelative number%condensing)Max altitudem4000m (over 1000m derate the rated current by 5%/1000m)Maximum Pollution degree2Overvoltage categoryIII up to 2000m altitude (II above 2000m)HousingVerticalInstallation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg1.38		max	°C	+60
Max altitudecondensing)Max altitudem4000m (over 1000m derate the rated current by 5%/1000m)Maximum Pollution degree2Overvoltage categoryIII up to 2000m altitude (II above 2000m)Housing	Relative humidity		%	
Max altitudem1000m derate the rated current by 5%/1000m)Maximum Pollution degree2Maximum Pollution degree2Overvoltage categoryaltitude (II above 2000m)Housing2Installation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMaximum 60 x 278 x 130WeightKg			70	
Max altitudemthe rated current by 5%/1000m)Maximum Pollution degree2Maximum Pollution degree2Overvoltage categoryaltitude (II above 2000m)Housing2000m)Installation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg1.38				•
Maximum Pollution degree2Maximum Pollution degree2Overvoltage categoryIII up to 2000m altitude (II above 2000m)Housing2Installation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg	Max altitude		m	
Maximum Pollution degree2Overvoltage categoryIII up to 2000m altitude (II above 2000m)HousingVerticalInstallation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg				
Overvoltage categoryIII up to 2000m altitude (II above 2000m)HousingVerticalInstallation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg				
Overvoltage categoryaltitude (II above 2000m)HousingVerticalInstallation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg	Maximum Pollution degree			
Housing2000m)Installation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg1.38				
HousingInstallation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg1.38	Overvoltage category			
Installation positionVerticalIP degree of protectionIP20Dimensions (W x H x D)mmMeightKg1.38				2000m)
IP degree of protection IP20 Dimensions (W x H x D) mm 60 x 278 x 130 Weight Kg 1.38				
Dimensions (W x H x D) mm 60 x 278 x 130 Weight Kg 1.38				
Weight Kg 1.38				-
÷	Dimensions (W x H x D)		mm	60 x 278 x 130
Dimensions	Weight		Kg	1.38
	Dimensions			



VLB30022A480 FREQUENZUMRICHTER 3 PHASEN 2,2 KW BEI 400V MIT FILTER UND RS485

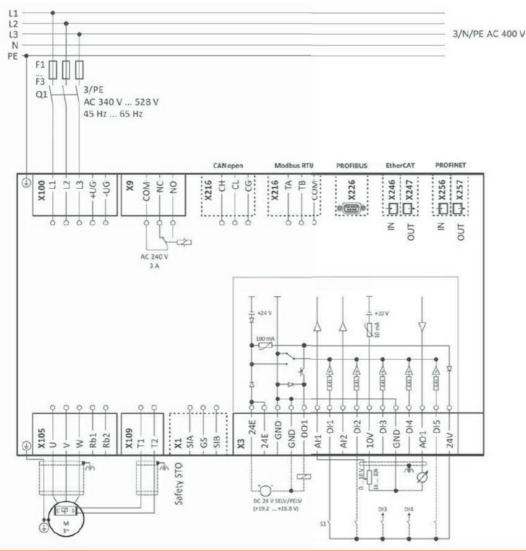
A e 900

250 (9.84")





VLB30022A480 FREQUENZUMRICHTER 3 PHASEN 2,2 KW BEI 400V MIT FILTER UND RS485



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