



Product designation		Variable speed drives
Product type designation		VLB3
General characteristics		. 123
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	НР	5 (Heavy load) / 7.5 (Standard 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		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

Shielded





变频器, VLB3, 三相电源400-480VAC 50/60HZ. 内置EMC抑制器 CAT. C2, 4KW

Unshielded	Without EMC category Category C1 Category C2 Category C3 Without EMC category	m m m m	50m / 100m (40°C max, switching frequency 4kHz max) 3 20 35
Functions	Williout Livio category	111	200
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 External
Speed reference signals			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 Yes
DC braking			Yes
DC injection at start			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





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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			,,
Number of digital input		Nr.	5
			Selectable PNP
Digital input type			or NPN logic
Number of digital output		Nr.	2
Trainbor of digital output		1 111.	1 relay output
			with changeover
Digital output arrangement			contact (C/O-
Digital output arrangement			SPDT) + 1 digital
			output
			Relay output: 3A
Output contacts ratings			250VAC Digital
,			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
			20mA
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-10
	max	°C	+55
		-	



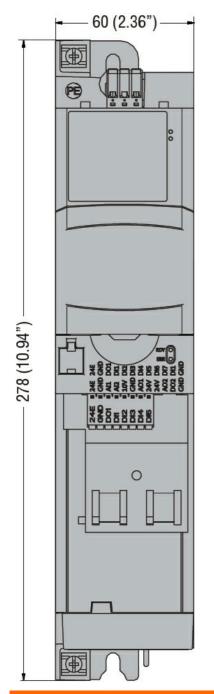


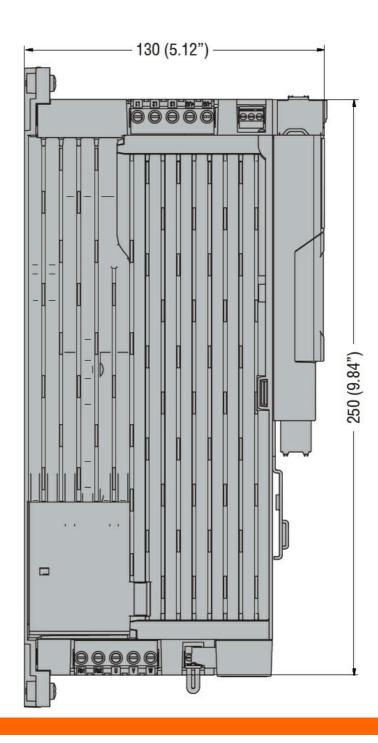
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	Current derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
Storage temperature			
	min	°C	-25
	max	°C	+60
Relative humidity		%	595% (with no condensing)
Max altitude		m	4000m (over 1000m derate 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	2.45
Dimensions			



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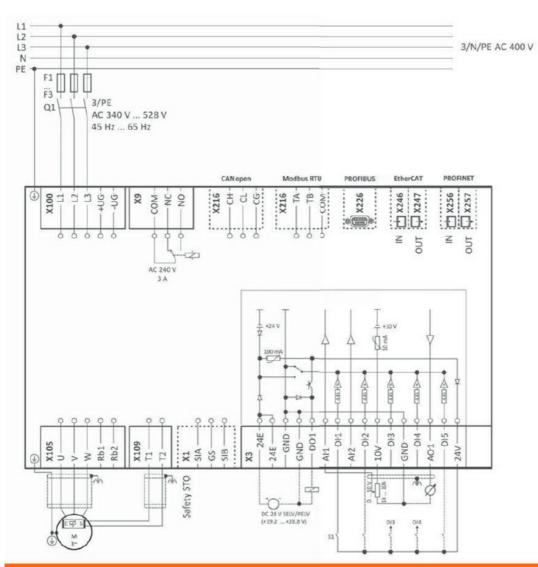




Wiring diagrams



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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