

Product designation			Variable speed drives
Product type designation			VLB3
General characteristics			VEDO
			400480VAC
Rated power supply voltage			50/60Hz
Rated output voltage		VAC	Three-phase 0 480VAC 0-599Hz
Rated output current		Α	23.5
Rated output power		kW	11
Rated output power		HP	15 (Heavy load) / 20 (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			28.4 (heavy load)
Rated mains current with mains choke			22.3 (heavy load) / 27.1 (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			16 (heavy load) / 19 (standard load)
Power loss			4kHz: 260W (heavy load) / 309 (standard load)
Brake chopper			Yes
Switching frequency			216kHz
Max motor cable length			
Shielded			
	Without EMC category	m	100
	Category C1	m	3
	Category C2	m	20





	Category C3	m	50
Unshielded	Without EMC category	m	200
Functions			V/f linear,
			quadratic torque, sensorless
			vector control,
			ECO mode, servo control with
			encoder feedback,
			multipoint V/f
Motor control modes			curve, V/f closed loop control with
			encoder
			feedback, torque setpoint,
			sensorless
			control for synchronous
			motors up to
			22kW
			External potentiometer
			010kΩ Voltage
			signals: 0… 10VDC or -10…
			+10VDC Current
			signals: 0/4… 20mA Buttons on
Speed reference signals			front keyboard
			Door-mount installation kit 15
			preset speeds
			via digital inputs Motor
			potentiometer
-			Fieldbus
3-wire control S-shape curves			Yes 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 Motorpotentiometer			Yes Yes
Different parameter configuration sets			Yes
Parameters changeover function			Yes
Favorite parameters menu			Yes
Autotuning Safe torque Off (STO) safety function			No
Sale torque Oir (STO) salety function			Optional





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PTC probe input			Yes
Protections			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
Special funct.			pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Input and Output Number of digital input		Nr.	5
Digital input type		INI.	Selectable PNP
		N.I.	or NPN logic
Number of digital output		Nr.	2 1 relay output
Digital output arrangement			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 Temporature			
Temperature Operating temperature	min max	°C °C	-10 +55



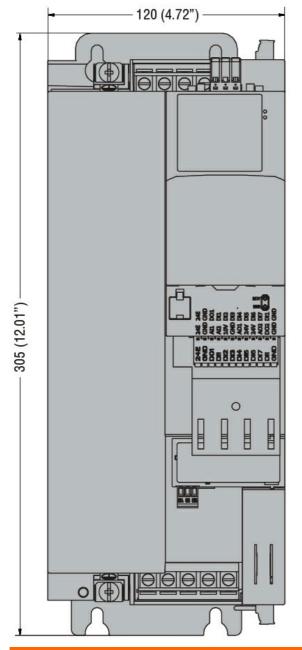


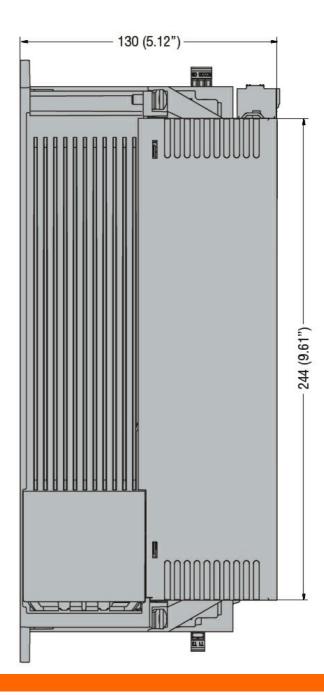
	Current derating		switching frequency 2 or 4kHz: 2.5%/°C over 45°C switching frequency 8 or 16kHz: 2.5%/°C over 40°C
Storage temperature			
	min	°C	-25
	max	°C	+60
Relative humidity		%	595% (with no condensing)
Max altitude		m	4000m (over 1000m derate the rated current by 5%/1000m)
Maximum Pollution 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	120 x 305 x 130
Weight		Kg	3.95
Dimensions			

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VARIABLE SPEED DRIVE, VLB3... TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC



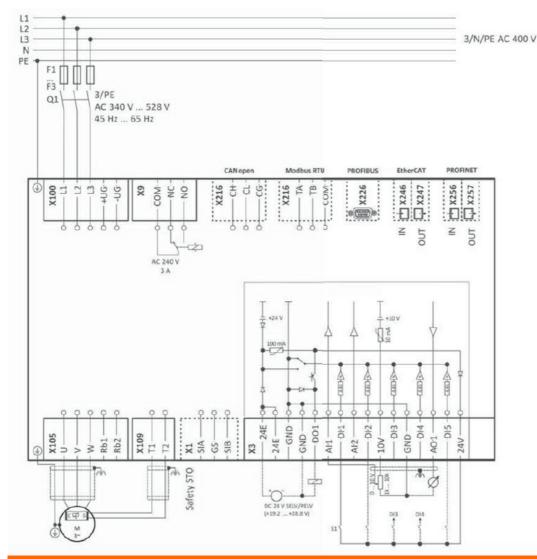




Wiring diagrams

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VARIABLE SPEED DRIVE, VLB3... TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN, CAT. C2, 11KW



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