



Product designation Product type designation General characteristics Rated power supply voltage  Rated output voltage  Rated output current A Rated output power  kV	480VAC 0-599Hz A 23.5 W 11 15 (Heavy load) /
Rated power supply voltage  Rated output voltage  Rated output current  A	VLB3  400480VAC 50/60Hz  Three-phase 0 480VAC 0-599Hz A 23.5 W 11 15 (Heavy load) /
Rated power supply voltage  Rated output voltage  Rated output current  A	400480VAC 50/60Hz AC Three-phase 0 480VAC 0-599Hz A 23.5 W 11 15 (Heavy load) /
Rated output voltage VA Rated output current A	50/60Hz Three-phase 0 480VAC 0-599Hz A 23.5 W 11 15 (Heavy load) /
Rated output current A	480VAC 0-599Hz A 23.5 W 11 15 (Heavy load) /
	W 11 15 (Heavy load) /
Rated output power kV	15 (Heavy load) /
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Rated output power HF	IP 20 (Standard load)
EMC filter	Built-in EMC suppressor cat. C2
Technical features	
Input type	Three-phase
Rated mains voltage VA	
Operating mains voltage range VA	
Rated mains frequency Hz	
Operating mains frequency range	
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 VA	AC 0480
Output frequency range	łz 0599
Current overload %/	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	400
Without EMC category m	
Category C1 m	
Category C2 m Category C3 m	
Category C3 m	





Unshielded			
	Without EMC category	m	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
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



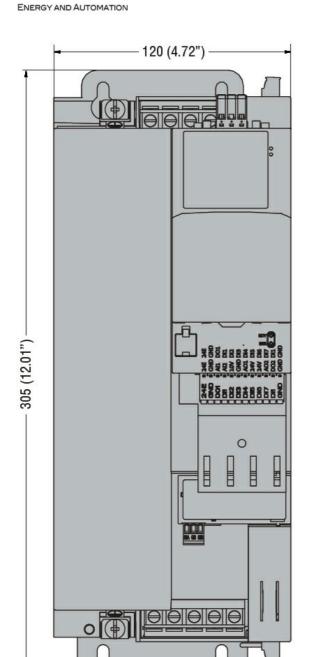


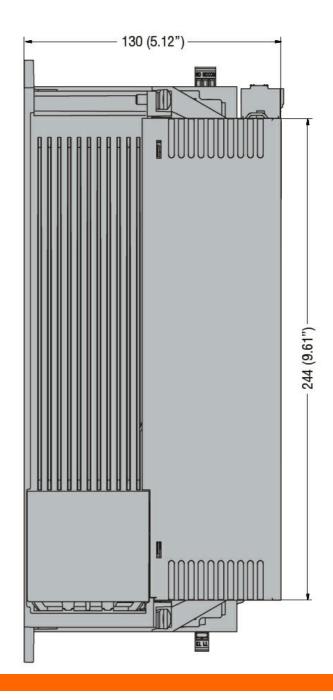
Protections			Overcurrent Output short circuit and earth/ground leakage Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse
Special funct.			Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Input and Output			_
Number of digital input		Nr.	5
Digital input type			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	120 x 305 x 130
Weight		Kg	3.7
Dimensions			





## 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