





Product designation		Variable speed drives
Product type designation		VLB3
General characteristics		7230
Rated power supply voltage		Three phase 400480VAC 50/60Hz
Rated output voltage	VAC	Three-phase 0 480VAC 0-599Hz
Rated output current	Α	16.5 (heavy load) / 23 (standard load)
Rated output power	kW	7.5 (Heavy load) / 11 (Standard load)
Rated output power	HP	10 (Heavy load) / 15 (Standard load)
EMC filter		Built-in EMC suppressor cat. C2
Communication port		Built-in RS485, Modbus RTU protocol
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		20 (heavy load) / 28 (standard load)
Rated mains current with mains choke		15.7 (heavy load) / 22 (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		11 (heavy load) / 15 (standard load)





			4kHz: 185W
Power loss			(heavy load) /
1 GWGI 1666			253 (standard
			load)
Brake chopper			Yes
Switching frequency			216kHz
Max motor cable length			
Shielded			
V	Vithout EMC category	m	100
	Category C1	m	3
	Category C2	m	20
	Category C3	m	50
Unshielded	Villa (EMO catalana		000
	Vithout EMC category	m	200
Functions			) (E. II
			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			Yes
			Yes
S-shape curves Slip compensation			Yes
Slip compensation			Yes
Flying restart Access to DC bus			Yes
			Yes
DC braking			
DC injection at start			Yes





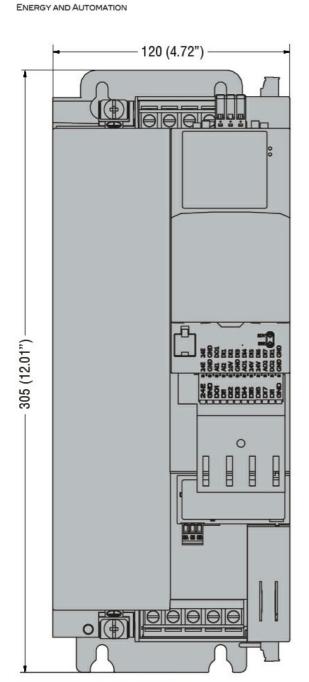
PID control		s, with sleep d rinse function
Sequencer (programmable frequency/time cycles)	Ye	
Preset speeds	Ye	
Motorpotentiometer	Ye	
Different parameter configuration sets	Ye	
Parameters changeover function	Ye	s
Favorite parameters menu	Ye	S
Autotuning	No	)
Safe torque Off (STO) safety function	Op	otional
PTC probe input	Ye	s
Protections	Ou cir ea lea Ov Ur Ph he (i2	vercurrent utput short cuit and rth/ground ukage vervoltage dervoltage ase loss Motor at overload t) Overspeed eed reverse
Special funct.	co pu reç au ac mo	ulti-pump PID ntrol (1 main mp frequency gulated + 2 xiliary pumps tivated in direct ode in case of cessity)
Input and Output		
Number of digital input	n° 5	
Digital input type		lectable PNP NPN logic
Number of digital output	n° 2	
Digital output arrangement	wit co SF	elay output th changeover ntact (C/O- PDT) + 1 digital tput
Output contacts ratings	25 ou	elay output: 3A 0VAC Digital tput: 100mA ax 30VDC
Number of analog input	n° 2	
Analog input type	0/2 -10 0 20	onfigurable 210VDC, 0+10VDC, 5VDC, 0/4 mA
Number of analog output	n° 1	
Analog output type	0 5V 10	nfigurable as .10VDC, 0 /DC, 2 VDC, 0/4 mA

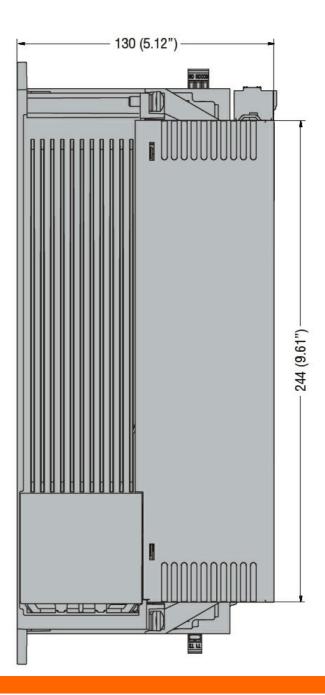




Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-10
	max	°C	+55
			switching
			frequency 2 or
	Current derating		4kHz: 2.5%/°C
C			over 45°C
			switching frequency 8 or
			16kHz: 2.5%/°C
			over 40°C
Storage temperature			
· ,	min	°C	-25
	max	°C	+60
Relative humidity	9/	%	595% (with no
- Holaive Harrianty		70	condensing)
			4000m (over
Max altitude	m	m	1000m derate
			the rated current by 5%/1000m)
Maximum Pollution degree			2
Maximum Foliution degree			III up to 2000m
Overvoltage category			altitude (II above
Over voltage category			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			

VARIABLE SPEED DRIVE, VLB3 TYPE, THREE-PHASE SUPPLY 400-480VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN CAT. C2, 7.5KW

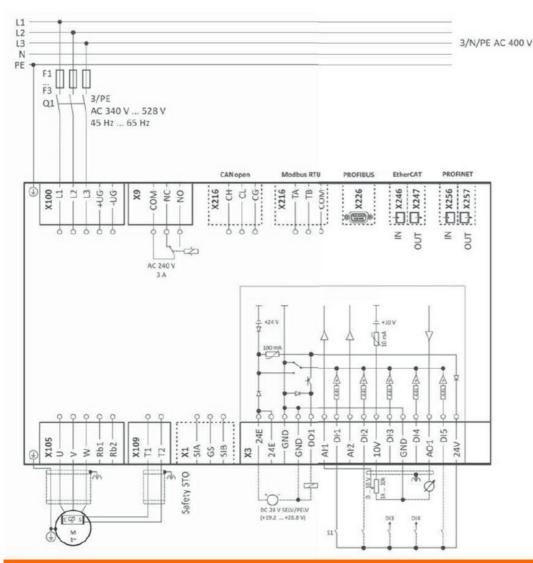




Wiring diagrams

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

SUPPRESSOR BUILT-IN CAT. C2, 7.5KW



## 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