

POWER UNIT, VLB1... TYPE, SINGLE-PHASE SUPPLY 200-240VAC 50/60HZ. EMC SUPPRESSOR BUILT-IN, 0.37KW

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Product designation		Variable speed drives
Product type designation		VLB1
General characteristics		VEDI
Rated power supply voltage		200240VAC 50/60Hz
Rated output current	Α	2.4
Rated output power	kW	0.37
EMC filter		Built-in EMC suppressor cat. C1/C2
Technical features		
Input type		Single-phase
Rated mains voltage	VAC	200240
Operating mains voltage range	VAC	170264
Rated mains frequency	Hz	50/60
Operating mains frequency range	Hz	4565
Rated mains current without mains choke		5.7
Rated mains current with mains choke		4.8
Output type		Three-phase
Output voltage range	VAC	0240
Output frequency range	Hz	0599
Current overload	%/s	150% for 60s; 200% for 3s
Apparent output power		0.9
Power loss		4kHz: 18W
Brake chopper		Yes
Switching frequency		216kHz
Max motor cable length		
Shielded		
Without EMC category	m	50
Category C1	m	3
Category C2	m	15
Category C3	m	15
Unshielded Without EMC category	m	80
Functions		





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Motor control modes		V/f linear, V/f quadratic, V/f multipoint, sensorless vector control, ECO mode, servo control with encoder feedback, torque setpoint, sensorless control for synchronous motors
3-wire control		Yes
S-shape curves		Yes
Slip compensation		Yes
Flying restart		Yes
Access to DC bus		-
DC braking		Yes
DC injection at start		Yes
PID control		Yes
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		Yes
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	N I	F
Number of digital input	Nr.	5 Selectable PNP
Digital input type		or NPN logic
Number of digital output	Nr.	1



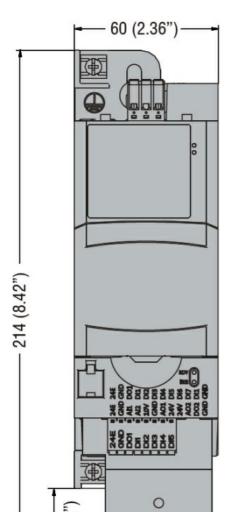


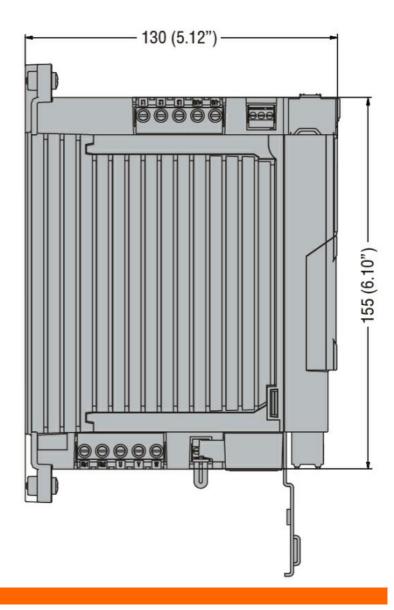
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			1 relay output with changeover
Digital output arrangement			contact (C/O-
			SPDT) + 1 digital
			output
			Relay output: 3A 250VAC Digital
Output contacts ratings			output: 100mA
			max 30VDC
Number of analog input		Nr.	2
			Configurable
Analog input type			0/210VDC,
Analog input type			-10+10VDC, 05VDC, 0/4
			20mA
Number of analog output		Nr.	1
			configurable as
Andrew to the co			010VDC, 0
Analog output type			5VDC, 2 10VDC, 0/4
			20mA
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-10
	max	°C	+60 (with derating
			over +45°C) Switching
			frequency 2 or
			4kHz: 2.5%/°C
Current	derating		over 45°C
Garren	acrating		switching
			frequency 8 or 16kHz: 2.5%/°C
			over 40°C
Storage temperature			0.01 10 0
	min	°C	-25
	max	°C	+60
			4000m (over
Max altitude		m	1000m derate
			the rated current by 5%/1000m)
Maximum Pollution degree			2
			III up to 2000m
Overvoltage category			altitude (II above
			2000m)
Housing			
Installation position			Vertical
IP degree of protection		IDC :	IP20
Dimensions (W x H x D)		mm	60 x 214 x 130
Weight Dimensions		Kg	0.8

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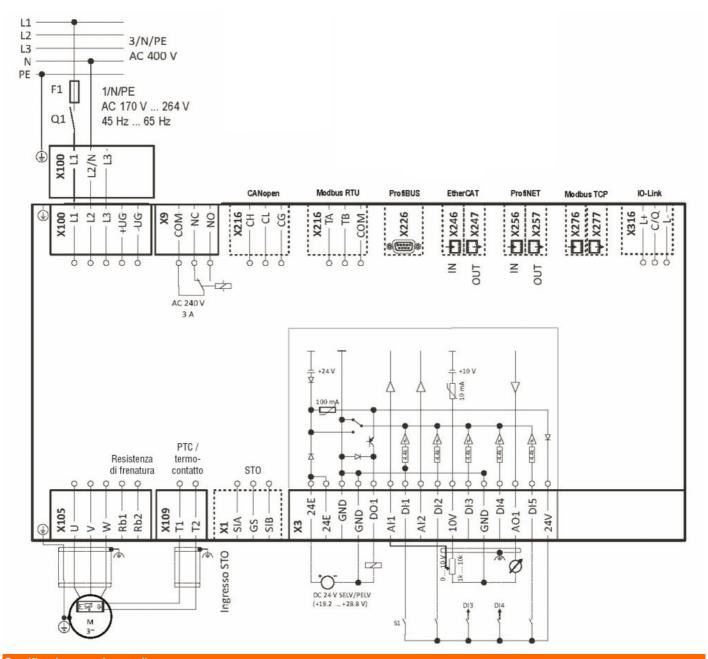


Wiring diagrams

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Certifications and compliance

Compliance

CSA 22.2 No. 274

EN/BS 61800-5-1

UL 61800-5-1

Certificates

cULus

RCM

ETIM classification

ETIM 8.0

EC001857 -Frequency converter =< 1 kV