VLB104A240XX

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



General characteristics			
Rated power supply voltage			200…240VAC 50/60Hz
Rated output current		A	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	200…240
Operating mains voltage range		VAC	170…264
Rated mains frequency		Hz	50/60
Operating mains frequency range		Hz	45…65
Rated mains current without mains choke			5.7
Rated mains current with mains choke			4.8
Output type			Three-phase
Output voltage range		VAC	0…240
Output frequency range		Hz	0…599
Current overload		%/s	150% for 60s; 200% for 3s
Apparent output power			0.9
Power loss			4kHz: 18W
Brake chopper			Yes
Switching frequency			2…16kHz
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			

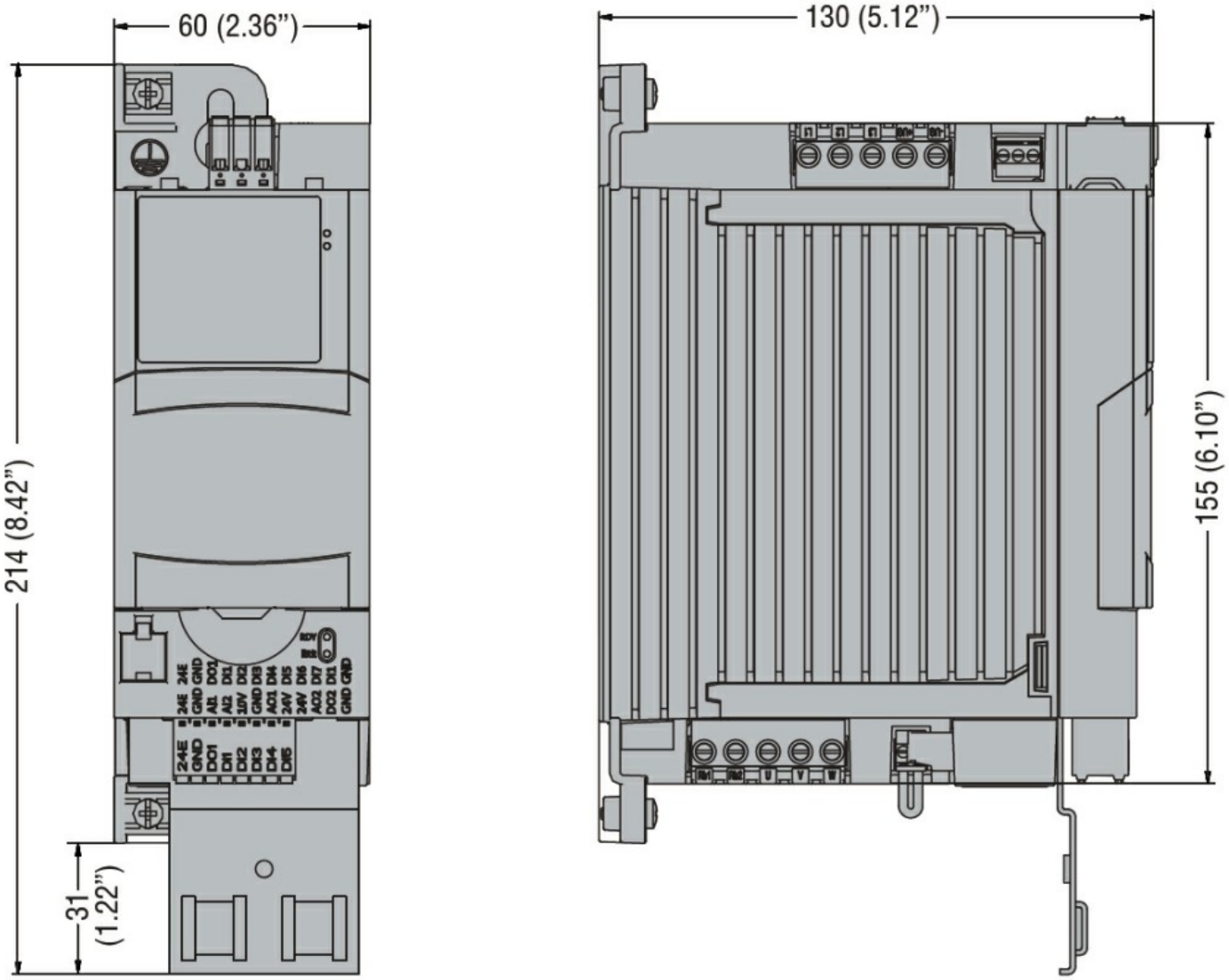
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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		
Number of digital input	Nr.	5
Digital input type		Selectable PNP or NPN logic
Number of digital output	Nr.	1

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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 0/2…10VDC, -10…+10VDC, 0…5VDC, 0/4…20mA
Number of analog output			Nr.	1
Analog output type				configurable as 0...10VDC, 0…5VDC, 2…10VDC, 0/4…20mA
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-10
		max	°C	+60 (with derating over +45°C)
		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
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	60 x 214 x 130
Weight			Kg	0.8
Dimensions				

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

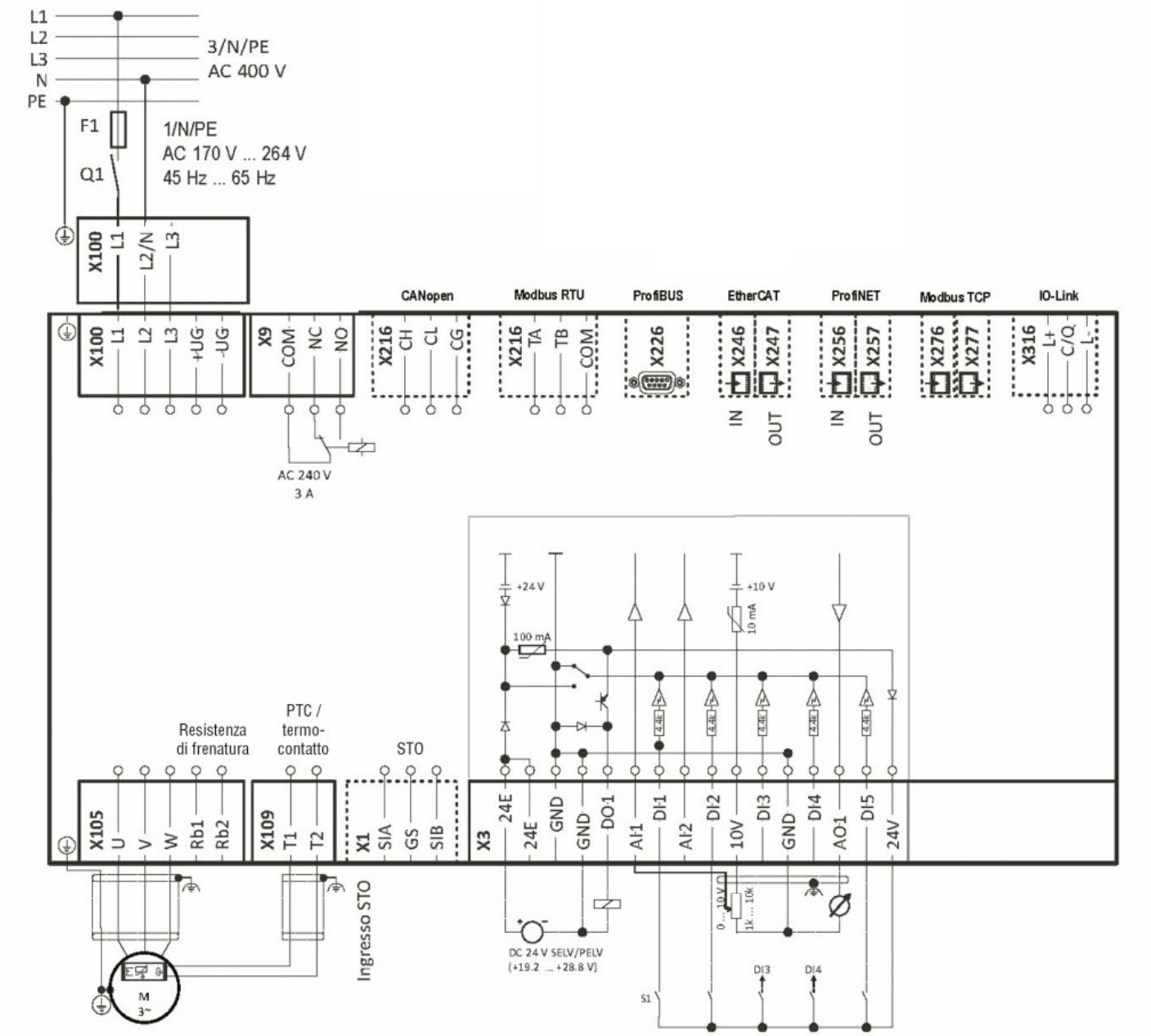


Wiring diagrams

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

VLB104A240XX

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



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

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding