## VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN EMC SUPPRESSOR, CAT. C2, 0.4KW



Product designation			Variable speed drives
Product type designation			VLA1
General characteristics			
Rated power supply voltage			Single phase 200240VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0240VAC 0- 599Hz
Rated output current		Α	2.4
Rated output power		kW	0.4
Rated output power		HP	0.5
EMC filter			Built-in EMC suppressor cat. C2
Communication port			No
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
Power loss			20W
Brake chopper			No
Switching frequency			216kHz
Max motor cable length			_
Shielded			
	Without EMC category	m	50
	Category C2	m	15
Functions			
Motor control modes			V/f linear, quadratic torque, sensorless vector control, ECO mode

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		External
		potentiometer
		010kΩ Voltage
		signals: 0 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
3-wire control		Yes
S-shape curves		Yes
Slip compensation		Yes
Flying restart		Yes
Access to DC bus		No
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
·		Yes
Different parameter configuration sets  Parameters changeover function		Yes
Favorite parameters menu		Yes No
Autotuning Safe torque Off (STO) safety function		No
PTC probe input		No
1 TO probe input		Overcurrent
		Output short
		circuit and
		earth/ground
		leakage
Protections		Overvoltage
		Undervoltage
		Phase loss Motor
		heat overload
		(i2t) Overspeed
		Speed reverse
		Multi-pump PID
		control (1 main
		pump frequency
Special funct.		regulated + 2
		auxiliary pumps
		activated in direct
		mode in case of necessity)
Input and Output		Hecessity)
Number of digital input	n°	5
Digital input type		Selectable PNP
		or NPN logic
Number of digital output	n°	2



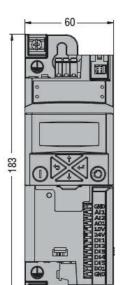


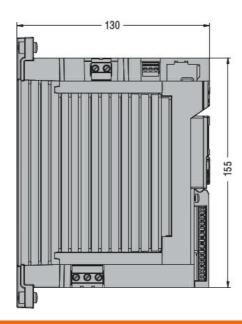
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				1 relay output
Digital output arrangeme			with changeover contact (C/O- SPDT) + 1 digital	
				output
				Relay output: 3A
Output contacts ratings				250VAC Digital output: 100mA
				max 30VDC
Number of analog input			n°	2
Analog input type				Analog input 1: configurable 0/210VDC, 0 5VDC, 0/4 20mA Analog input 2:
				configurable
				0/210VDC or
Number of analog output	4		n°	05VDC 1
Number of analog outpu	ι		П	configurable as
Analog output type				010VDC, 0 5VDC, 2 10VDC, 0/4 20mA
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-10 +55
		max	C	+55 2.5%/°C over
		Current derating		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 degr	ee			2
Overvoltage category				III up to 2000m altitude (II above 2000m)
Housing				Mark 1
Installation position				Vertical IP20
IP degree of protection Dimensions (W x H x D)			mm	60 x 183 x 130
Weight			Kg	0.75
Dimensions				

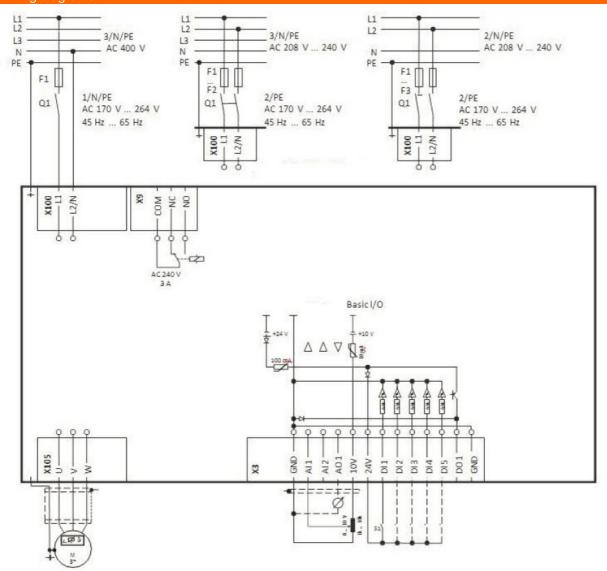
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### Wiring diagrams



### Certifications and compliance

Compliance

CSA 22.2 No. 274



**ENERGY AND AUTOMATION** 

### **VLA104A240**

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	EN 61800-5-1	
	UL61800-5-1	
Certificates		
	cULus	
	EAC	
	RCM	
ETIM classification	n .	

ETIM 8.0

EC001857 -Frequency

converter =< 1 kV