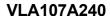




Product designation			Variable speed drives
Product type designation			VLA1
General characteristics			
Rated power supply voltage			200240VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0240VAC 0- 599Hz
Rated output current		Α	4.2
Rated output power		kW	0.75
Rated output power		HP	1
EMC filter			Built-in EMC suppressor cat. C2
Communication port			None
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			10
Rated mains current with mains choke			8.8
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			33W
Brake chopper			No
Switching frequency			216kHz
Max motor cable length			_
Shielded			
	Without EMC category	m	50
	Category C2	m	20
Functions			
Motor control modes			V/f linear, quadratic torque, sensorless vector control, ECO mode



Speed reference signals		External potentiometer 010kΩ Voltage signals: 0 10VDC Current signals: 0/4 20mA Buttons on 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
Different parameter configuration sets		Yes
Parameters changeover function		Yes
Favorite parameters menu		Yes
Autotuning		No
Safe torque Off (STO) safety function		No
PTC probe input		No
		Overcurrent Output short circuit and earth/ground leakage
Protections		Overvoltage Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse
Special funct.		Undervoltage Phase loss Motor heat overload (i2t) Overspeed
Special funct.  Input and Output	Nr	Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Special funct.  Input and Output Number of digital input	Nr.	Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Special funct.  Input and Output	Nr.	Undervoltage Phase loss Motor heat overload (i2t) Overspeed Speed reverse Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)



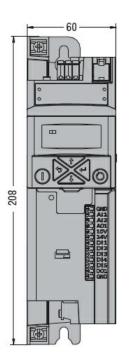


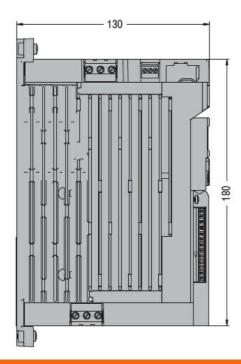
# VARIATEURS DE VITESSE VLA1 1P 0.75 KW 200...240VAC 50/60HZ AVEC FILTRE CAT.C2

Digital output arranger	ment			1 relay output with changeover contact (C/O- SPDT) + 1 digital output
Output contacts rating				Relay output: 3A 250VAC Digital output: 100mA max 30VDC
Number of analog inpu	ut		Nr.	2
Analog input type				Analog input 1: configurable 0/210VDC, 0 5VDC, 0/4 20mA Analog input 2: configurable 0/210VDC or 05VDC
Number of analog out	out		Nr.	1
Analog output type				configurable as 010VDC, 0 5VDC, 2 10VDC, 0/4 20mA
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-10
		max	°C	+55
		Current derating		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 de	gree			2
Overvoltage category				III up to 2000m altitude (II above 2000m)
Housing				V (1)
Installation position				Vertical
IP degree of protection				IP20
Dimensions (W x H x	ט)		mm	60 x 208 x 130
Weight			Kg	0.95
Dimensions				

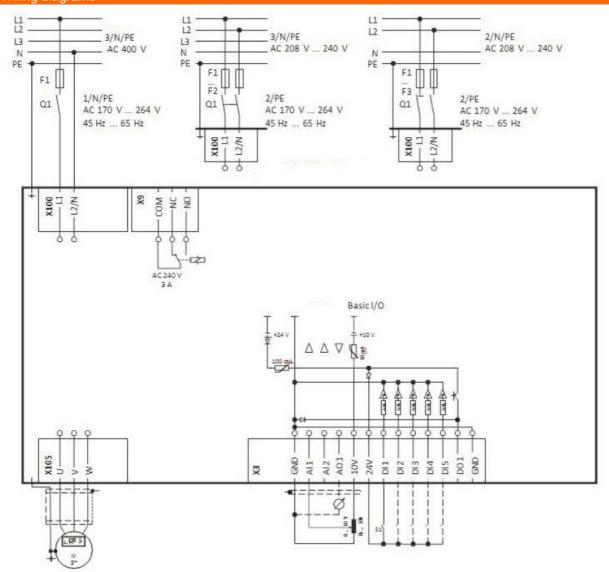


#### **ENERGY AND AUTOMATION**





### Wiring diagrams



### Certifications and compliance



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## **VLA107A240**

VARIATEURS DE VITESSE VLA1 1P 0.75 KW 200...240VAC 50/60HZ AVEC FILTRE CAT.C2

Compliance

CSA 22.2 No. 274

EN 61800-5-1

UL61800-5-1

Certificates

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001857 - Frequency

converter =< 1 kV