



		Car we
Product designation		Variable speed
C		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	A	9.6
Rated output power	kW	2.2
Rated output power	HP	3
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		22.5
Rated mains current with mains choke		16.9
Output type		three-phase
Output voltage range	VAC	0240
Output frequency range	Hz	0599
Current overload	%/s	150% for 60s, 200% for 3s
		70W
Power loss		
Power loss Brake chopper		No

Shielded

	Without EMC category	m	50
	Category C2	m	20
Functions			
Motor control modes			V/f linear, quadratic torque, sensorless vector control, ECO mode



VLA122A240 VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN EMC SUPPRESSOR, CAT. C2, 2.2KW

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
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)
Number of digital input	n°	5
Digital input type		Selectable PNP
		or NPN logic
Number of digital output	n°	2

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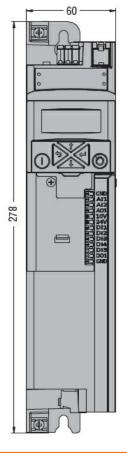


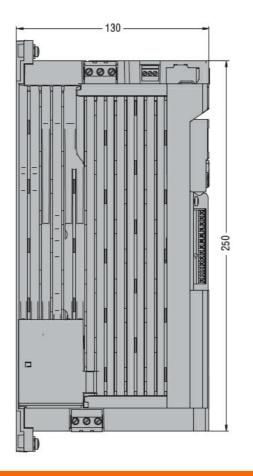
Digital output arrangement			1 relay output with changeover contact (C/O- SPDT) + 1 digital output
Output contacts ratings			Relay output: 3A 250VAC Digital output: 100mA max 30VDC
Number of analog input		n°	2
Analog input type			Analog input 1: configurable 0/210VDC, 0 5VDC, 0/4 20mA Analog input 2: configurable 0/210VDC or 05VDC
Number of analog output		n°	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 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 281 x 130
Weight		Kg	1.35
Dimensions			



VLA122A240 VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ).

BUILT-IN EMC SUPPRESSOR, CAT. C2, 2.2KW





Wiring diagrams

VLA122A240



VLA122A240 VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN EMC SUPPRESSOR, CAT. C2, 2.2KW

L1 L2 L1 L2 L1 L2 3/N/PE 3/N/PE 2/N/PE L3 L3 AC 208 V ... 240 V AC 208 V ... 240 V AC 400 V N N N PE PE PE F1 ¢ Φ F1 Ψ F3 1/N/PE 2/PE 2/PE Q1 Q1 Q1 AC 170 V ... 264 V AC 170 V ... 264 V AC 170 V ... 264 V 45 Hz ... 65 Hz 45 Hz ... 65 Hz 45 Hz ... 65 Hz I Ι X100 X100 -11 L2/N Ξ L2/N 99 99 6X X100 X100 COM Q NC 99 5 AC 240 V 3 A Basic I/O +10 V +24 \ ŧ ΔΔ∇ 83 100 0 公司 公司 4 公司 0 9 9 C 0 X105 DI1 DI2 DI3 DI4 DI4 DI5 D01 GND GND A01 AI2 10V 24V AI1 X 2 ÷ Ø 2 01 1 51 100 3

Certifications and compliance

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

VLA122A240