



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	А	7
Rated output power	kW	1.5
Rated output power	HP	2
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		16.7
Rated mains current with mains choke		13.9
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		50W
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
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.	2

VLA115A240

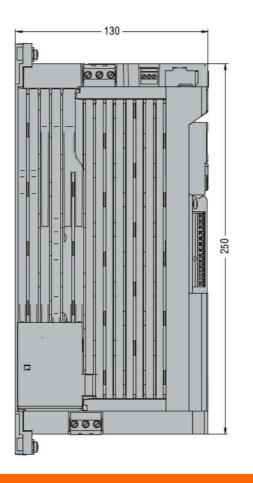


Digital output arrangement			1 relay output with changeover contact (C/O- SPDT) + 1 digital output
Output contacts ratings			Relay output: 3A 250VAC Digital output: 100mA max 30VDC
Number of analog input		Nr.	2
Analog input type			Analog input 1: configurable 0/210VDC, 0 5VDC, 0/4 20mA Analog input 2: configurable 0/210VDC or 05VDC
Number of analog output		Nr.	1
Analog output type			configurable as 010VDC, 0 5VDC, 2 10VDC, 0/4 20mA
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-10
	max Current derating	°C	+55 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			



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VLA115A240 VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN EMC SUPPRESSOR, CAT. C2, 1.5KW

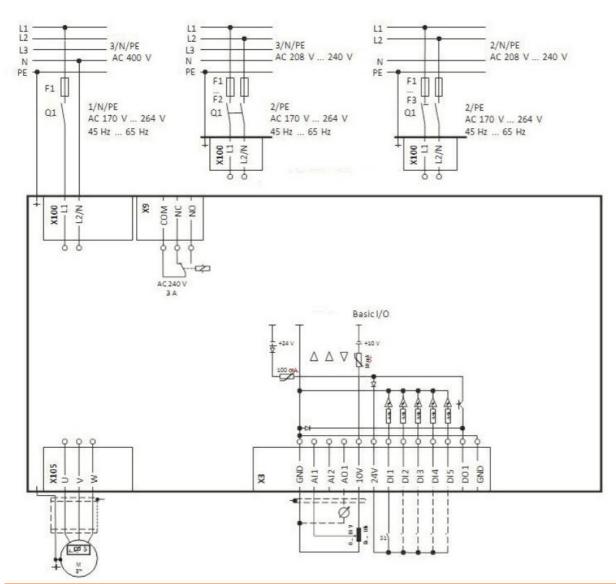


Wiring diagrams

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Certifications and compliance

Compliance		
	CSA 22.2 No. 274	
	EN 61800-5-1	
	UL61800-5-1	
Certificates		
	cULus	
	EAC	
	RCM	
ETIM classificatio	n	

ETIM 8.0

EC001857 -Frequency converter =< 1 kV