



			100
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	2.4
Rated output power		kW	0.4
Rated output power		HP	0.5
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			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



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. Input and Output		Multi-pump PID control (1 main pump frequency regulated + 2 auxiliary pumps activated in direct mode in case of necessity)
Number of digital input	Nr.	5
	INI.	Selectable PNP
Digital input type Number of digital output	Nr.	or NPN logic
Trainipor or algital output	I Ní .	_



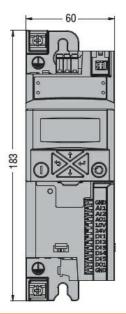


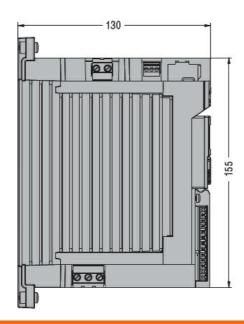
FREQUENZUMRICHTER,1 PHASE AC 0.4 KW, 200/240V 50/60HZ MIT FILTER CAT, C2

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	°C	+55
Current derating	J	2.5%/°C over 40°C
Storage temperature		
	°C	-25
min		
- '	°C	+60
min		+60 595% (with no condensing)
min max	°C	+60 595% (with no
Relative humidity min max	°C %	+60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2
Relative humidity Max altitude Maximum Pollution degree Overvoltage category	°C %	+60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m)
Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing	°C %	+60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2 III up to 2000m altitude (II above 2000m)
Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position	°C %	+60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2 III up to 2000m altitude (II above 2000m) Vertical
Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position IP degree of protection	°C % m	+60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2 III up to 2000m altitude (II above 2000m) Vertical IP20
Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position	°C %	+60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2 III up to 2000m altitude (II above 2000m) Vertical

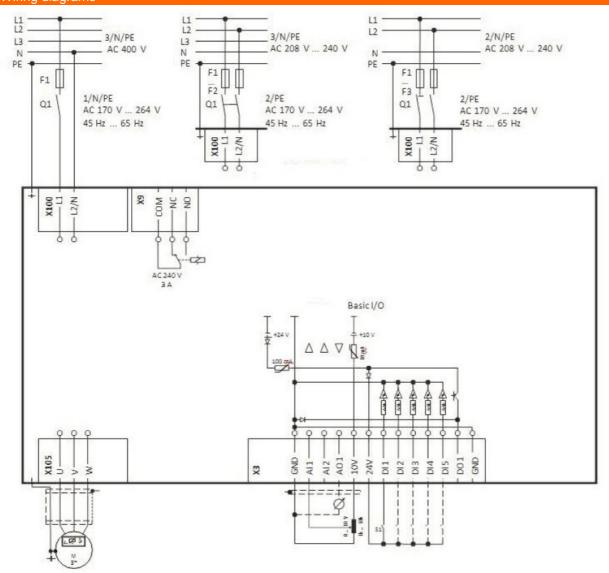








Wiring diagrams



Certifications and compliance

Compliance

CSA 22.2 No. 274



ENERGY AND AUTOMATION

VLA104A240

FREQUENZUMRICHTER,1 PHASE AC 0.4 KW, 200/240V 50/60HZ MIT FILTER CAT, C2

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

ETIM 8.0

EC001857 -Frequency converter =< 1 kV