



Product designation			Variable speed
•			drives VLA1
Product type designation General characteristics			VLAT
General characteristics			200240VAC
Rated power supply voltage			50/60Hz
			Three-phase
Rated output voltage		VAC	0240VAC 0-
·			599Hz
Rated output current		Α	1.7
Rated output power		kW	0.25
Rated output power		HP	0.33
			Built-in EMC
EMC filter			suppressor cat.
			C2
Communication port			None
Technical features			0:
Input type		1/40	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			4
Rated mains current with mains choke			3.6
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			15W
Brake chopper			No
Switching frequency			216kHz
Max motor cable length			
Shielded	1100 · 510		
	Without EMC category	m	50
E contract	Category C2	m	15
Functions			V/f linear,
			quadratic torque,
Motor control modes			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 Fieldbus
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	h 1 :	
Number of digital input	Nr.	Solootoble DND
Digital input type		Selectable PNP or NPN logic



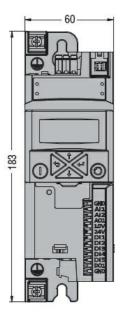


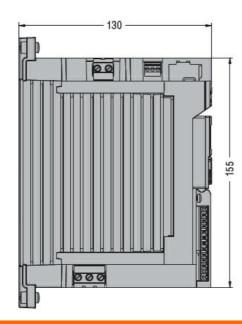
FREQUENZUMRICHTER,1 PHASE AC 0.25 KW, 200/240V 50/60HZ MIT FILTER CAT. C2

Number of digital output		Nr.	2
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
			configurable as 010VDC, 0 5VDC, 2
Analog output type			10VDC, 0/4 20mA
Ambient conditions			
Ambient conditions Temperature			
Ambient conditions		°C	20mA
Ambient conditions Temperature	min	°C °C	-10
Ambient conditions Temperature			20mA
Ambient conditions Temperature	min max Current derating		-10 +55 2.5%/°C over
Ambient conditions Temperature Operating temper	min max Current derating	°C	-10 +55 2.5%/°C over 40°C
Ambient conditions Temperature Operating temper	min max Current derating ure	°C	-10 +55 2.5%/°C over 40°C -25 +60
Ambient conditions Temperature Operating temper	min max Current derating ure min	°C	-10 +55 2.5%/°C over 40°C -25 +60 595% (with no condensing)
Ambient conditions Temperature Operating temper	min max Current derating ure min	°C °C °C	-10 +55 2.5%/°C over 40°C -25 +60 595% (with no
Ambient conditions Temperature Operating temperature Storage temperature Relative humidity	min max Current derating ure min	°C °C %	-10 +55 2.5%/°C over 40°C -25 +60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2
Ambient conditions Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category	min max Current derating ure min	°C °C %	20mA -10 +55 2.5%/°C over 40°C -25 +60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m)
Ambient conditions Temperature Operating temper Storage temperat Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing	min max Current derating ure min	°C °C %	-10 +55 2.5%/°C over 40°C -25 +60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2 III up to 2000m altitude (II above 2000m)
Ambient conditions Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position	min max Current derating ure min	°C °C %	-10 +55 2.5%/°C over 40°C -25 +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
Ambient conditions Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position IP degree of protection	min max Current derating ure min	°C °C %	-10 +55 2.5%/°C over 40°C -25 +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
Ambient conditions Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position	min max Current derating ure min	°C °C %	-10 +55 2.5%/°C over 40°C -25 +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

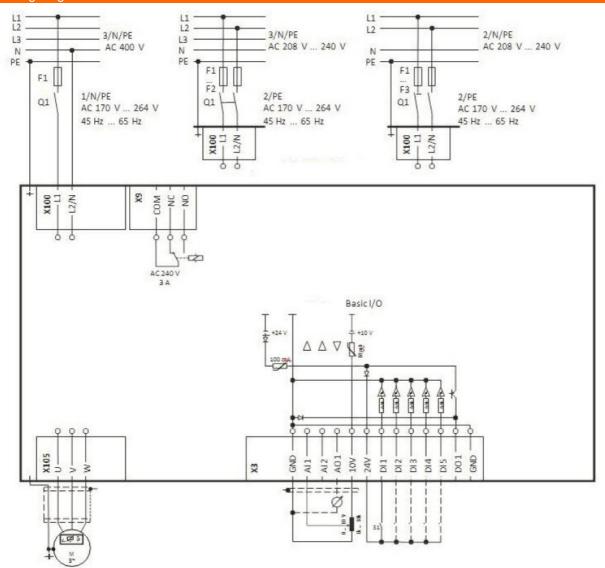


ENERGY AND AUTOMATION





Wiring diagrams



Certifications and compliance

Compliance

CSA 22.2 No. 274



VLA102A240

FREQUENZUMRICHTER,1 PHASE AC 0.25 KW, 200/240V 50/60HZ MIT FILTER CAT. C2

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

ETIM 8.0

EC001857 -Frequency converter =< 1 kV