

## VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN EMC SUPPRESSOR, CAT. C2, 0.25KW



Product designation			Variable speed 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		Α	1.7
Rated output power		kW	0.25
Rated output power		HP	0.33
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			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			
	Without EMC category	m	50
	Category C2	m	15
Functions			\//f linear
Motor control modes			V/f linear, quadratic torque, sensorless vector control, ECO mode

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Speed reference signals	signals: 10VDC signals:	meter 2 Voltage 0 Current 0/4 uttons on /board ount on kit 15 speeds al inputs meter
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 and rins	n sleep e 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	Overcur Output s circuit ai earth/gru leakage Overvoli Undervol Phase lo heat ove (i2t) Ove	short and cund tage oltage oss Motor erload erspeed
Special funct.  Input and Output Number of digital input	Multi-pu control ( pump fre regulate auxiliary activatee mode in necessit  n° 5  Selectal	1 main equency d + 2 pumps d in direct case of
Digital input type	or NPN	

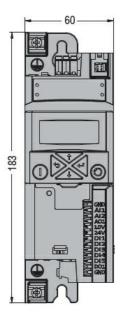


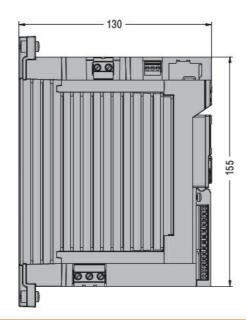
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Number of digital output		n°	2
Digital output arrangement			1 relay output with changeover contact (C/O- SPDT) + 1 digital
			output
Output contacts ratings			Relay output: 3A 250VAC Digital output: 100mA max 30VDC
Number of analog input		n°	2
Analog 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 183 x 130
Weight		Kg	0.75
Dimensions			

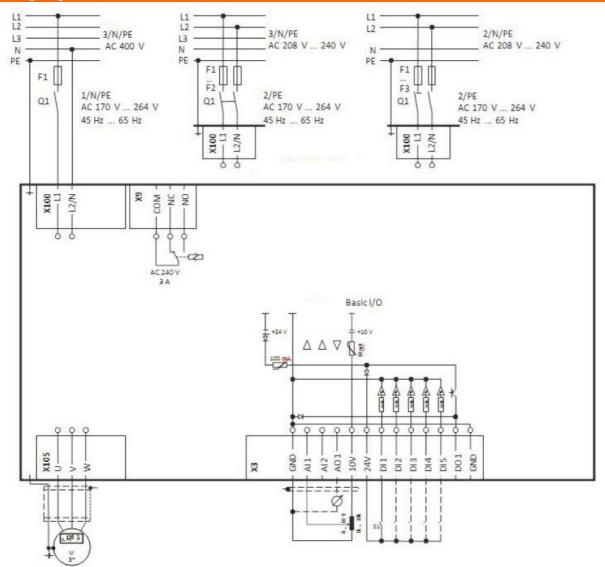
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## Wiring diagrams



## Certifications and compliance

Compliance

CSA 22.2 No. 274



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## **VLA102A240**

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

ETIM 8.0

EC001857 -Frequency

converter =< 1 kV