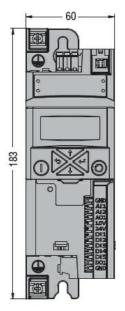
			523°
Product designation			Variable speed drives
Product type designation			VLA1
General characteristics			V L/ ()
Rated power supply voltage			200240VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0240VAC 0- 599Hz
Rated output current		Α	1.7
Rated output power		kW	0.25
Rated output power		HP	0.33
EMC filter			Built-in EMC suppressor cat. C2
Communication port			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			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 Motor control modes			V/f linear, quadratic torque, sensorless vector control, ECO mode

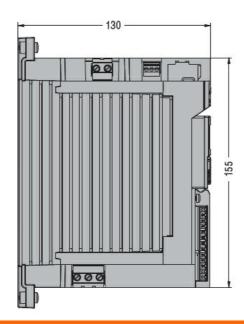
Speed reference signals	External potentiometer 010kΩ Voltage signals: 0 10VDC Current signals: 0/4 20mA Buttons or front keyboard Door-mount installation kit 15 preset speeds via digital inputs Motor potentiometer Fieldbus
3-wire control	Yes
S-shape curves	Yes
Slip compensation	Yes
Flying restart	Yes
Access to DC bus	No
DC braking	Yes
DC injection at start	Yes
PID control	Yes, with sleep and rinse functio
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 Moto 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
Digital input type	Selectable PNP or NPN logic



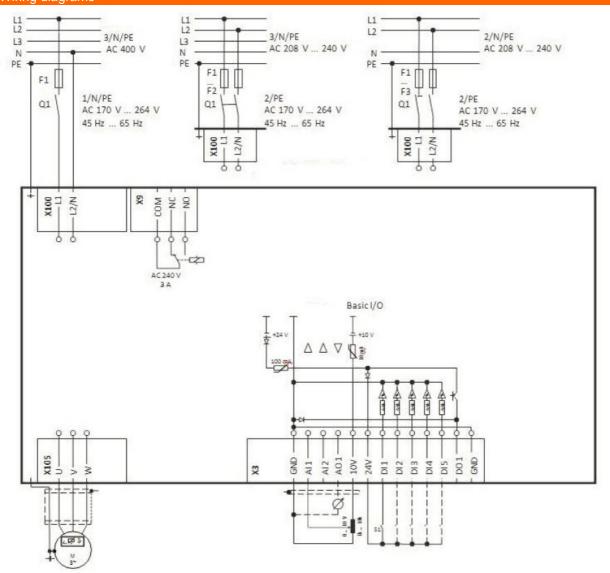
Number of digital output		Nr.	2
			1 relay output
			with changeover
Digital output arrangement			contact (C/O-
			SPDT) + 1 digital
			output
			Relay output: 3A
Output contacts ratings			250VAC Digital
•			output: 100mA max 30VDC
Number of analog input		Nr.	2
Trainibor of analog input		141.	Analog input 1:
			configurable
			0/210VDC, 0
			5VDC, 0/4
Analog input type			20mA Analog
			input 2:
			configurable
			0/210VDC or
Number of engles output		Nr.	05VDC 1
Number of analog output		INI.	configurable as
			010VDC, 0
Analog output type			5VDC, 2
3 - 3 - 4 - 51 -			10VDC, 0/4
			20mA
Ambient conditions			
Temperature			
Temperature	min	°C	-10
Temperature	min max	°C °C	+55
Temperature	max		+55 2.5%/°C over
Temperature Operating temperature			+55
Temperature	max Current derating	°C	+55 2.5%/°C over 40°C
Temperature Operating temperature	max Current derating min	°C	+55 2.5%/°C over 40°C -25
Temperature Operating temperature Storage temperature	max Current derating	°C °C °C	+55 2.5%/°C over 40°C -25 +60
Temperature Operating temperature	max Current derating min	°C	+55 2.5%/°C over 40°C -25 +60 595% (with no
Temperature Operating temperature Storage temperature	max Current derating min	°C °C °C	+55 2.5%/°C over 40°C -25 +60 595% (with no condensing)
Operating temperature Storage temperature Relative humidity	max Current derating min	°C °C °C	+55 2.5%/°C over 40°C -25 +60 595% (with no condensing) 4000m (over
Temperature Operating temperature Storage temperature	max Current derating min	°C °C °C	+55 2.5%/°C over 40°C -25 +60 595% (with no condensing)
Operating temperature Storage temperature Relative humidity	max Current derating min	°C °C °C	+55 2.5%/°C over 40°C -25 +60 595% (with no condensing) 4000m (over 1000m derate
Operating temperature Storage temperature Relative humidity	max Current derating min	°C °C °C	+55 2.5%/°C over 40°C -25 +60 595% (with no condensing) 4000m (over 1000m derate the rated current by 5%/1000m) 2
Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree	max Current derating min	°C °C °C	+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
Temperature Operating temperature Storage temperature Relative humidity Max altitude	max Current derating min	°C °C °C	+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
Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category	max Current derating min	°C °C °C	+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
Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing	max Current derating min	°C °C °C	+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)
Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position	max Current derating min	°C °C °C	+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
Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position IP degree of protection	max Current derating min	°C °C %	+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
Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position IP degree of protection Dimensions (W x H x D)	max Current derating min	°C °C % m	+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 60 x 183 x 130
Temperature Operating temperature Storage temperature Relative humidity Max altitude Maximum Pollution degree Overvoltage category Housing Installation position IP degree of protection	max Current derating min	°C °C %	+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







Wiring diagrams



Certifications and compliance

Compliance

CSA 22.2 No. 274



ENERGY AND AUTOMATION

VLA102A240

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

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

ETIM 8.0

EC001857 -Frequency

converter =< 1 kV