VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN EMC SUPPRESSOR, CAT. C2, 0.75KW

Product designation			Variable speed
•			drives
Product type designation			VLA1
General characteristics			000 0401440
Rated power supply voltage			200240VAC 50/60Hz
Rated output voltage		VAC	Three-phase 0240VAC 0- 599Hz
Rated output current		Α	4.2
Rated output power		kW	0.75
Rated output power		HP	1
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			10
Rated mains current with mains choke			8.8
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			33W
Brake chopper			No
Switching frequency			216kHz
Max motor cable length			
Shielded			
	Without EMC category	m	50
	Category C2	m	20
Functions			
Mater control modes			V/f linear, quadratic torque,

sensorless vector control, ECO mode

Motor control modes

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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		noocoonty)
Number of digital input	Nr.	5
<u> </u>		Selectable PNP
Digital input type Number of digital output	Nr.	or NPN logic
Transor of digital output	1 11.	



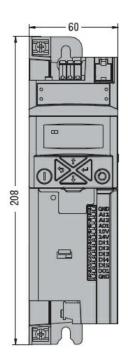


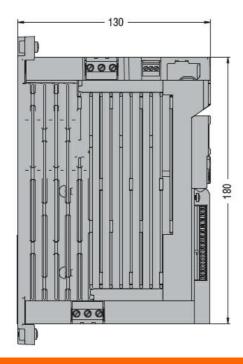
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			1 relay output
Digital output arrangement			with changeover contact (C/O-
Digital output arrangement			SPDT) + 1 digital
			output
			Relay output: 3A
Output contacts ratings			250VAC Digital
			output: 100mA max 30VDC
Number of analog input		Nr.	2
			Analog input 1:
			configurable
			0/210VDC, 0 5VDC, 0/4
Analog input type			20mA Analog
			input 2:
			configurable
			0/210VDC or 05VDC
Number of analog output		Nr.	1
			configurable as
Andrew to the co			010VDC, 0
Analog output type			5VDC, 2 10VDC, 0/4
			20mA
Ambient conditions			
Temperature			
Operating temperature	min	°C	-10
	max	°C	+55
		O	2.5%/°C over
	Current derating		40°C
Storage temperature			
	min	°C	-25
	max		+60 595% (with no
Relative humidity		%	condensing)
			4000m (over
Max altitude		m	1000m derate the rated current
			by 5%/1000m)
Maximum Pollution degree			2
			III up to 2000m
Overvoltage category			altitude (II above 2000m)
Housing			2000111)
Installation position			Vertical
IP degree of protection			IP20
Dimensions (W x H x D)		mm	60 x 208 x 130
Weight		Kg	0.95
Dimensions			

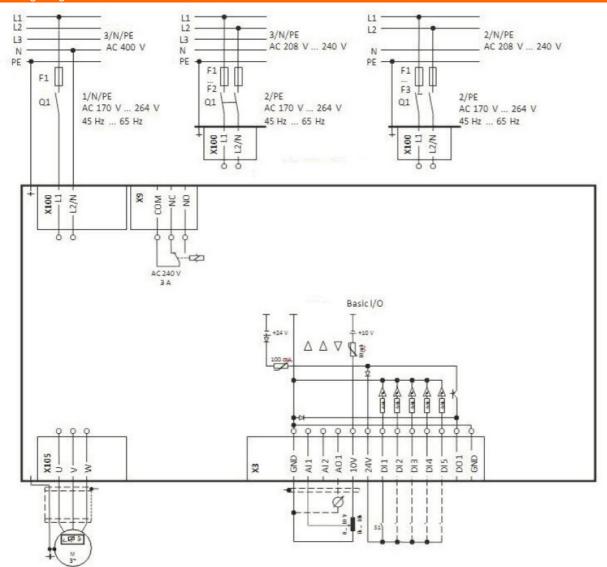
ENERGY AND AUTOMATION

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Wiring diagrams



Certifications and compliance



ENERGY AND AUTOMATION

VLA107A240

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BUILT-IN EMC SUPPRESSOR, CAT. C2, 0.75KW

Compliance

CSA 22.2 No. 274

EN 61800-5-1

UL61800-5-1

Certificates

cULus

EAC

RCM

ETIM classification

ETIM 8.0 EC001857 Frequency
converter =< 1 kV