

Product designation

VARIABLE SPEED DRIVE, VLA1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN EMC SUPPRESSOR, CAT. C2, 1.5KW

	Variable speed drives VLA1
	Single phase 200240VAC 50/60Hz
AC	Three-phase 0240VAC 0- 599Hz
4	7
W	1.5
ΙP	2
	Built-in EMC suppressor cat. C2
	No
	Single phase
AC_	200240
AC	170264
lz	50/60
łz	4565
	16.7
	13.9
	three-phase
AC_	0240
lz	0599
s/s	150% for 60s, 200% for 3s
	50W
	No

			V/f linear, quadratic torque,
Functions) ((e.l)
	Category C2	m	20
	Without EMC category	m	50
Shielded			
Max motor cable length			
Switching frequency			216kHz
Brake chopper			No
Power loss			50W
Current overload		%/s	150% for 60s, 200% for 3s
Output frequency range		Hz	0599
Output voltage range		VAC	0240
Output type			three-phase
Rated mains current with mains choke			13.9
Rated mains current without mains choke			16.7
Operating mains frequency range		Hz	4565
Rated mains frequency		Hz	50/60
Operating mains voltage range		VAC	170264
Rated mains voltage		VAC	200240
Input type			Single phase
Technical features			
Communication port			No
EMC filter			Built-in EMC suppressor cat. C2
Rated output power		HP	2
Rated output power		kW	1.5
Rated output current		Α	7
Rated output voltage		VAC	Three-phase 0240VAC 0- 599Hz
Rated power supply voltage			Single phase 200240VAC 50/60Hz
General characteristics			V = 7 ()
Product type designation			VLA1
Product designation			drives

sensorless vector control, ECO mode

Motor control modes



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		External
		potentiometer 010kΩ Voltage
		signals: 0
		10VDC Current
		signals: 0/4
Chand reference signals		20mA Buttons on
Speed reference signals		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
		Overcurrent
		Output short circuit and
		earth/ground
		leakage
Protections		Overvoltage
		Undervoltage
		Phase loss Motor
		heat overload
		(i2t) Overspeed
		Speed reverse
		Multi-pump PID
		control (1 main
		pump frequency
Special funct.		regulated + 2 auxiliary pumps
		activated in direct
		mode in case of
		necessity)
Input and Output		
Number of digital input	n°	5
Digital input type		Selectable PNP or NPN logic
Number of digital output	n°	2





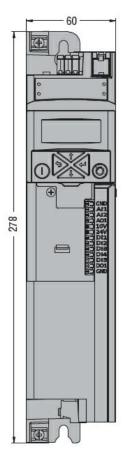
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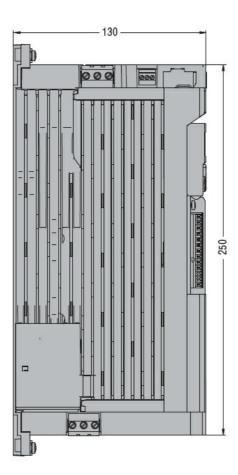
Digital output arrangement				1 relay output with changeover contact (C/O-
				SPDT) + 1 digital
Output contacts ratings				output Relay output: 3A 250VAC Digital output: 100mA max 30VDC
Number of analog input			n°	2
Analog input type				Analog input 1: configurable 0/210VDC, 0 5VDC, 0/4 20mA Analog input 2: configurable 0/210VDC or 05VDC
Number of analog outp	out		n°	1
Analog output type				configurable as 010VDC, 0 5VDC, 2 10VDC, 0/4 20mA
Ambient conditions				
Temperature	O a service de service de service de			
	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				No. of the control of
Installation position	_			Vertical
IP degree of protection			DO :	IP20
Dimensions (W x H x D) Weight			mm	60 x 281 x 130
Dimensions			Kg	1.35
DITIONS OF STREET				





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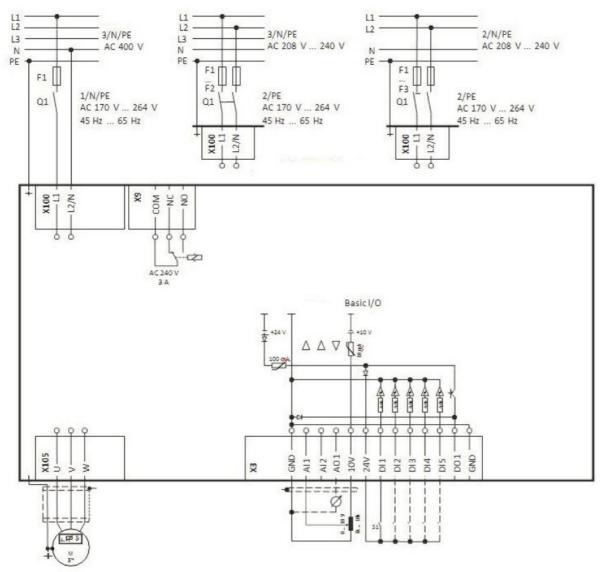




Wiring diagrams

ENERGY AND AUTOMATION

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Certifications and compliance

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