VT107A240

VARIABLE SPEED DRIVE, VT1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ). BUILT-IN RS485 COMMUNICATION PORT. BUILT-IN EMC SUPPRESSOR, CAT. C2, 0.75KW



Product designation		Variable speed drives
Product type designation		VT107A240
General characteristics		
Rated power supply voltage		200...240VAC 50/60Hz
Rated output voltage	VAC	Three-phase 0...240VAC 0-599Hz
Rated output current	A	4.3
Rated output power	kW	0.75
Rated output power	HP	1
EMC filter		Built-in EMC suppressor cat. C2
Communication port		RS485, Modbus-RTU and BACnet
Technical features		
Input type		Single-phase
Rated mains voltage	VAC	200...240
Operating mains voltage range	VAC	170…264
Rated mains frequency	Hz	50/60
Rated mains current without mains choke		11
Output type		Three-phase
Output voltage range	VAC	0...240
Output frequency range	Hz	0...599
Current overload	%/s	150% for 60s
Apparent output power		1.65
Brake chopper		No
Cooling System		Natural
Switching frequency		1…16kHz
Functions		
Motor control modes		V/f linear, V/f quadratic, V/f multi-point , sensorless vector control

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Speed reference signals		Frontal potentiometer External potentiometer 1…10kΩ Voltage signals: 0… 10VDC Current signals: 0/4… 20mA Buttons on front keyboard Door-mount keyboard 7 preset speeds via digital inputs RS485 port
3-wire control		Yes
S-shape curves		Yes
Slip compensation		Yes
Flying restart		No
Access to DC bus		No
DC braking		Yes
DC injection at start		Yes
PID control		Yes
Sequencer (programmable frequency/time cycles)		Yes
Preset speeds		Yes
Motorpotentiometer		Yes
Different parameter configuration sets		Main/alternative run command select Main/alternative frequency command select
Parameters changeover function		No
Favorite parameters menu		No
Autotuning		Yes
Safe torque Off (STO) safety function		No
PTC probe input		Yes
Protections		Motor overload Drive overload Overvoltage Undervoltage Phase loss Overtemperature Overspeed
Special funct.		Multi-pump PID for the control of up to 4 VT1... drives in master-slave configuration
Input and Output		
Number of digital input	Nr.	5
Digital input type		PNP logic
Number of digital output	Nr.	1
Digital output arrangement		1 relay output with NO contact

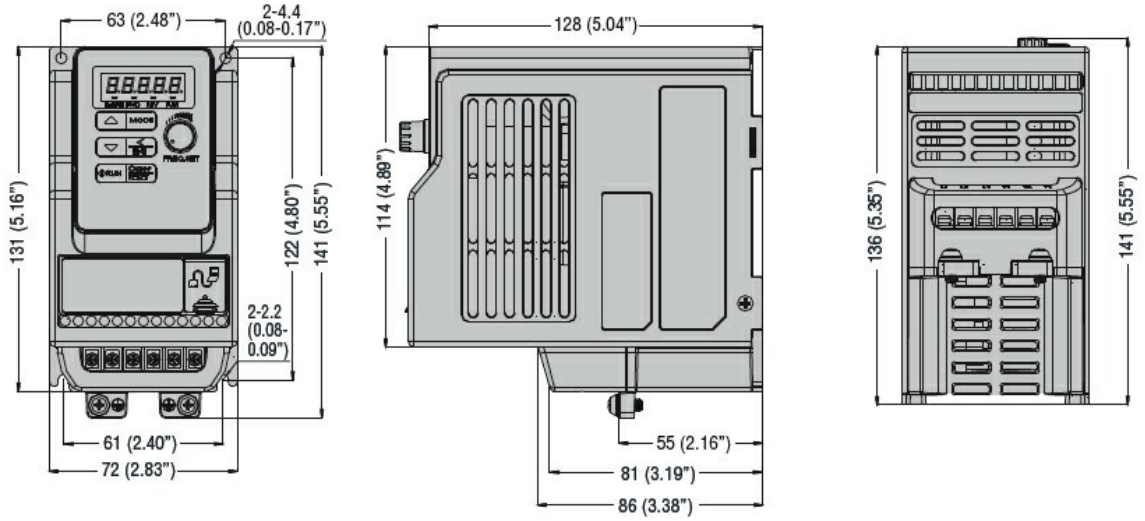
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Output contacts ratings				1A 250VAC, 1A 30VDC
Number of analog input			Nr.	2
Analog input type				1 voltage analog input 0...10VDC 1 current analog input 0/4...20mA
Number of analog output			Nr.	1
Analog output type				0…10VDC
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-10
		max	°C	+50
		Current derating		from 40 to 50°C with derating of the output current of 6%/°C
	Storage temperature			
		min	°C	-20
		max	°C	+60
Relative humidity			%	<95
Max altitude			m	3000m (over 1000m derate the rated current by 2%/100m)
Maximum Pollution degree				2
Housing				
Installation position				Vertical
IP degree of protection				IP20
Dimensions (W x H x D)			mm	72 x 141 x 141
Weight			Kg	1

Dimensions



Certifications and compliance

Compliance	
	CSA 22.2 No. 274
	EN 61800-5-1
	UL508C
Certificates	

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cULus
EAC
RCM

ETIM classification

ETIM 8.0	EC001857 - Frequency converter =< 1 kV

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