



Product designation

Variable speed
drives

Product type designation

VT102A240

General characteristics

Rated power supply voltage		200...240VAC 50/60Hz
Rated output voltage	VAC	Three-phase 0...240VAC 0- 599Hz
Rated output current	A	1.8
Rated output power	kW	0.2
Rated output power	HP	0.25
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		4.9
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		0.68
Brake chopper		No
Cooling System		Natural
Switching frequency		1...16kHz

Functions

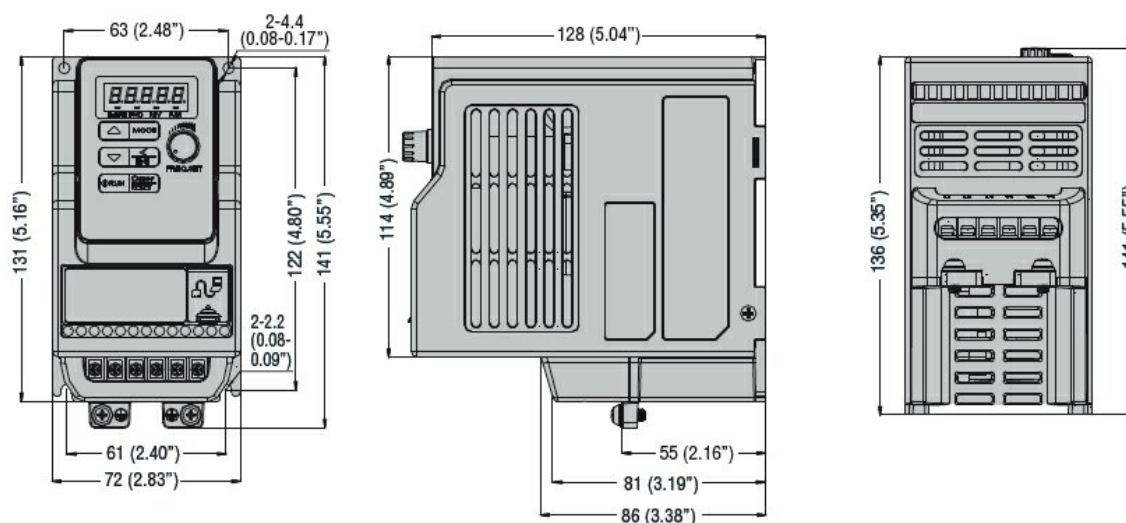
Motor control modes

V/f linear, V/f
quadratic, V/f
multi-point ,
sensorless
vector control

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	

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
		from 40 to 50°C with derating of the output current of 6%/°C
Current derating		
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

VARIABLE SPEED DRIVE, VT1 TYPE, SINGLE-PHASE, SUPPLY 200...240VAC (50/60HZ).
BUILT-IN RS485 COMMUNICATION PORT. BUILT-IN EMC SUPPRESSOR, CAT. C2, 0.2KW

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001857 -
Frequency
converter =< 1 kV