



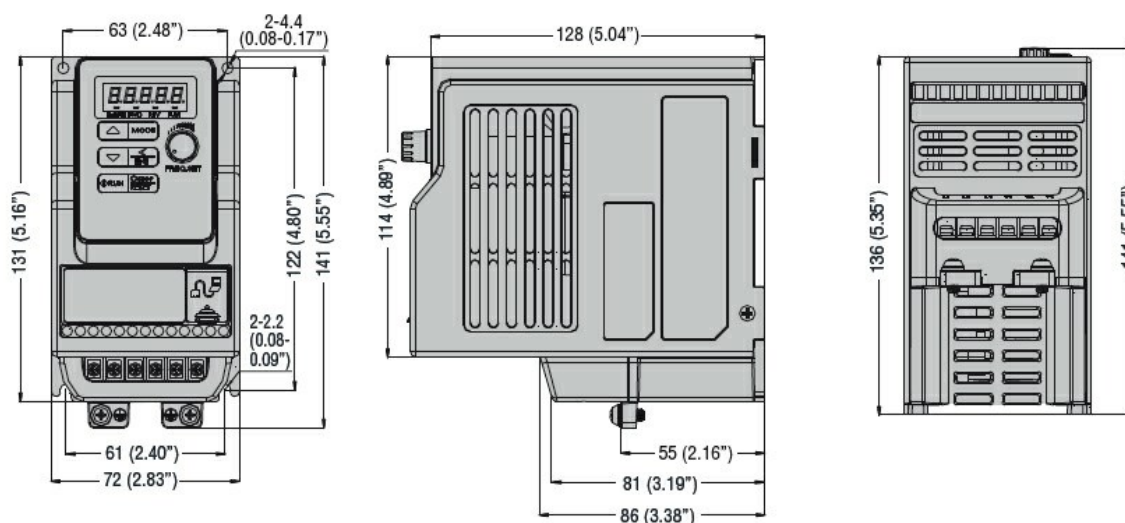
|   |                       |  |
|---|-----------------------|--|
| Product designation                     | Variable speed drives |  |
| Product type designation                | VT107A240             |  |
| General characteristics                 |                       |  |
| Rated power supply voltage              |                       | 200...240VAC<br>50/60Hz  |
| Rated output voltage                    | VAC                   | Three-phase<br>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<br>suppressor cat.<br>C2  |
| Communication port                      |                       | RS485, Modbus-<br>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<br>quadratic, V/f<br>multi-point ,<br>sensorless<br>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<br>1 current analog input 0/4...20mA |
| Number of analog output   | Nr. | 1   |
| Analog output type        |     | 0...10VDC   |
| <b>Ambient conditions</b> |     |   |
| 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   |

|                         |    |                |
|-------------------------|----|----------------|
| <b>Housing</b>          |    |                |
| Installation position   |    | Vertical       |
| IP degree of protection |    | IP20           |
| Dimensions (W x H x D)  | mm | 72 x 141 x 141 |
| Weight                  | Kg | 1              |

**Dimensions**



|                                      |                  |
|--------------------------------------|------------------|
| <b>Certifications and compliance</b> |                  |
| Compliance                           |                  |
|                                      | CSA 22.2 No. 274 |
|                                      | EN 61800-5-1     |
|                                      | UL508C           |

|                     |  |
|---------------------|--|
| <b>Certificates</b> |  |
|---------------------|--|

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001857 -  
Frequency  
converter =< 1 kV