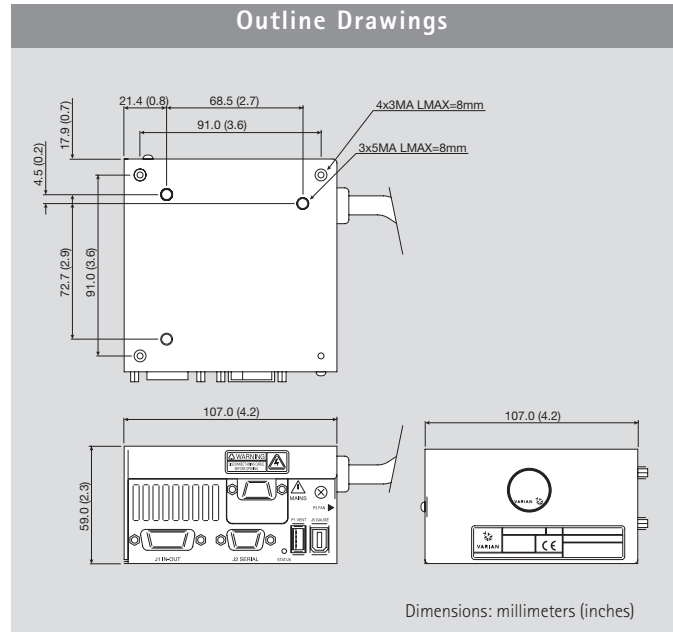


Turbo-V 81-AG Navigator Controller



The Turbo-V 81-AG Navigator controller is a solid-state frequency converter with the following features:

- Drives the pumps of the Turbo-V 81 family.
- Powers the pump cooling fan.
- Drives the vent valve.
- Provides and acquires the pressure of the wide range gauge.
- Remote I/Os compatible with the previous version.
- Navigator default serial compatible with the previous RS 232 and 485 version.
- Able to operate with Active Gauges (IM-500, Full Range Gauge FRG-700 and FRG-702).

The dedicated controller is a solid-state frequency converter which is driven by a single chip microcomputer and consists of two PCBs which include power supply and 3-phase output, analog and input/output section, microprocessor and digital section. The power supply, together with the 3-phase output, converts the single phase AC mains supply or 24Vdc supply into a 3-phase, low voltage, medium frequency output which is required to power the pump. The controller can be operated by a remote host computer via the serial connection. A Windows-based software is available (optional). The Turbo-V 81-AG Navigator controller can be mounted on board, on the bottom of the Turbo-V 81 Series pumps.

Technical Specifications

Input voltages:	
Navigator controller, 24 Vdc	24 Vdc $\pm 10\%$
Navigator controller, 100/240 Vac	100 ÷ 240 Vac $\pm 10\%$
Input power:	
Navigator controller, 24 Vdc	80W
Navigator controller, 100/240 Vac	180 VA
Input frequency:	
Navigator controller, 100/240 Vac	50 to 60 Hz $\pm 5\%$
Fuse	2 x T4 A 250V
Output voltage	60 Vac
Output frequency	1350 Hz
Output power:	
Navigator controller, 24 Vdc	50W
Navigator controller, 100/240 Vac	70 W (ramp), 50 W (Normal and Autotuning)
Operating temperature	+5 ÷ +45 °C 0 - 90% (Not condensing)
Storage temperature	-20 °C to +70 °C 0 - 95%

Ordering Information

Description	Weight kg (lbs)	Part Number
Controllers		
Turbo-V 81-AG Navigator controller*, 24 Vdc	0.3 (0.66)	9698995
Turbo-V 301 Navigator controller*, 100/240 Vac	0.3 (0.66)	9698996
<small>* Order power cable separately</small>		
Accessories		
Mains cable NEMA Plug, 3m long		9699958
Mains cable European Plug, 3m long		9699957
Serial cable and T-Plus Software		9699883
Air cooling kit (0,5m)		9699290
Air cooling kit, extension cable (5m)		9699940
Vent Valve N.O. 0.5mm orifice (0.7 m cable)		9699844
Vent valve Extension Cable (5m, USB Type A - USB Type A)		9699941
Active Gauges		Ask Varian for details
Active Gauges cables		Ask Varian for details