

AQUAVAR® AVII

VARIABLE SPEED PUMP CONTROLLER



AVII VOLTAGES, PHASES AND HORSEPOWER RANGES

| | |
|------------------------------------|-----------------------------------|
| 200-230 Volt Single Phase Input | 200-230 Volt Three Phase Input |
| 2 HP - 10 HP | 1 HP - 20 HP |

| | |
|-----------------------------------|-------------------------------|
| 460 Volt Three Phase Input | 575 Volt Three Phase Input |
| 2 HP - 75 HP | 2 HP - 40 HP |
| 100 HP - 150 HP coming soon!!! | 50 - 100 HP coming soon!!! |

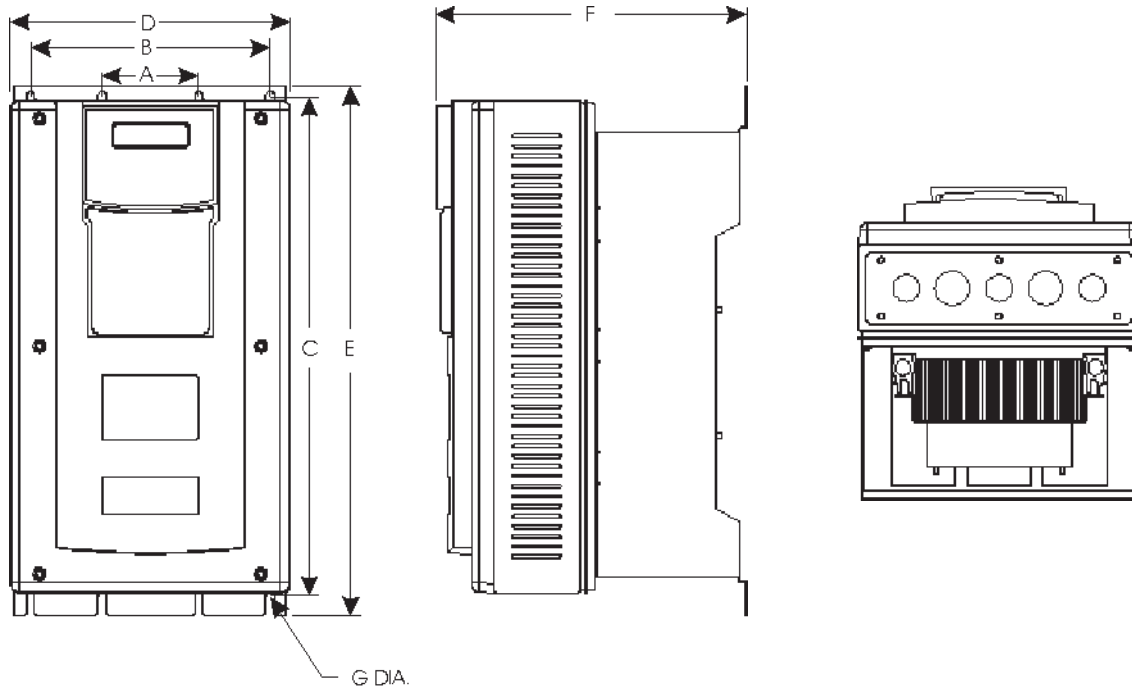
- The AVII is a wall-mounted variable speed pump controller with a domestically designed power platform that incorporates all of the programming and functionality of the standard pump-mounted AQUAVAR.
- All of the components necessary to ensure optimum controller performance are fully integrated into one compact package.
- The controller consists of: the transducer, programming board, frequency inverter board (including over-voltage protection) and the external fan to cool the controller.
- With the AVII, G & L has expanded the AQUAVAR product offering to include more voltages and phases as well as higher horsepower than ever before.

AVII ADDED FEATURES

- Input line reactors not required for controller to be covered under warranty.
- Programmable supply voltage, output current and output voltage.
- Ability to monitor output voltage, current, power, drive temperature and motor temperature.

Select the Control Method to Suit Your Application:

- Constant Pressure
- Constant Flow
- Level Control

**VARIABLE SPEED
PUMP CONTROLLER**
DIMENSIONAL SPECIFICATIONS


| HP Rating | A in (mm) | B in (mm) | C in (mm) | D in (mm) | E in (mm) | F in (mm) | G in (mm) |
|-----------|--------------|--------------|---------------|---------------|---------------|---------------|--------------|
| 1 to 20 | 3.20 (81.3) | 7.88 (200.2) | 16.50 (419.1) | 9.20 (233.7) | 17.44 (443.0) | 13.43 (293.4) | 0.28 (7.1) |
| 25 to 40 | 3.20 (81.3) | 7.88 (200.2) | 19.25 (489.0) | 11.25 (285.8) | 20.19 (512.8) | 13.43 (329.7) | 0.28 (7.1) |
| 25 to 60 | 3.20 (81.3) | 7.88 (200.2) | 28.00 (711.2) | 12.62 (320.5) | 29.25 (742.9) | 11.73 (297.9) | 0.28 (7.1) |
| 75 | 3.20 (81.3) | 7.88 (200.2) | 30.00 (762.0) | 12.62 (320.5) | 29.25 (742.9) | 11.73 (297.9) | 0.28 (7.1) |

WEIGHTS OF MODELS - Table 1: NEMA 12

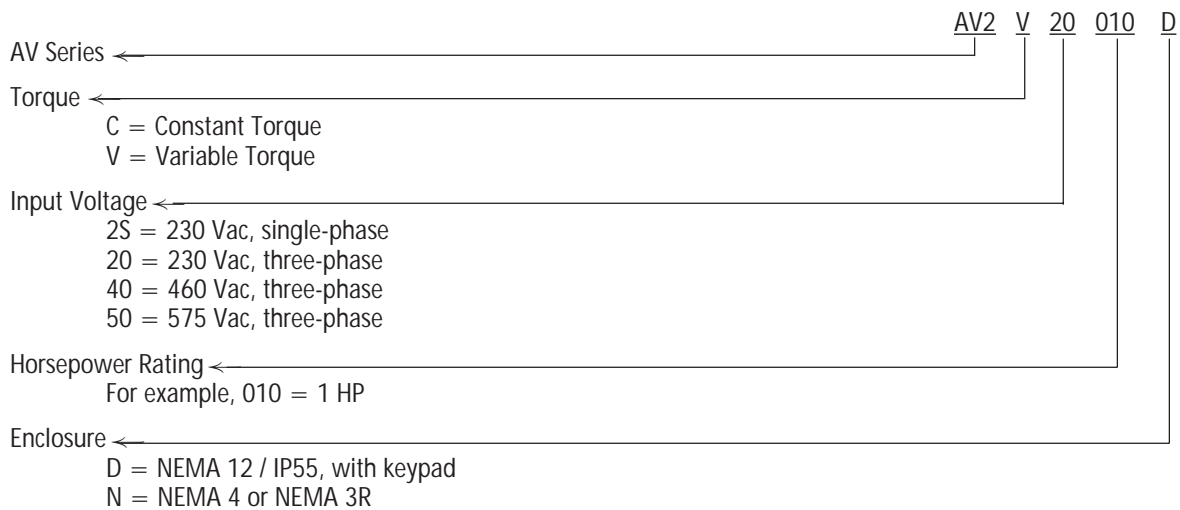
| Power Rating | Weight | | Power Rating | Weight | |
|--------------|--------|--------|--------------|-----------|------|
| | HP | Pounds | | Kilograms | HP |
| 1 | 24.0 | 10.9 | 20 | 28.0 | 12.7 |
| 2 | 24.0 | 10.9 | 25 | 52.0 | 23.6 |
| 3 | 24.0 | 10.9 | 30 | 52.0 | 23.6 |
| 5 | 24.0 | 10.9 | 40 | 60.0 | 27.2 |
| 7 1/2 | 24.0 | 10.9 | 50 | 95.0 | 43.0 |
| 10 | 24.0 | 10.9 | 60 | 95.0 | 43.0 |
| 15 | 28.0 | 12.7 | | | |

VARIABLE SPEED PUMP CONTROLLER

ELECTRICAL SPECIFICATIONS

Interpreting Model Numbers

The model number of the Aquavar appears on the shipping carton label and on the technical data label affixed to the model. The information provided by the model number is shown below:



Power and Current Ratings

| Model Number | Motor Power | | Input | | | Output Voltage (Vac) | Output Current (A) | |
|--------------|-------------|-----|-------------------------------------|---------------------|-----------------|----------------------|--------------------|-----------------|
| | HP | kW | Voltage (Vac) | Maximum Current (A) | | | 200/380 Vac | 230/460/575 Vac |
| | | | | 200/380 Vac | 230/460/575 Vac | | | |
| AV2V2S010D | 1.0 | 0.7 | Single-phase 200 to 230 ± 15% | — | 8.9 | 0 to 230 | 4.8 | 4.2 |
| AV2V2S020D | 2.0 | 1.5 | | — | 16.2 | | 7.8 | 6.8 |
| AV2V2S030D | 3.0 | 2.2 | | — | 23.1 | | 11.0 | 9.6 |
| AV2V2S050D | 5.0 | 3.7 | | — | 32.9 | | 17.5 | 15.2 |
| AV2V2S075D | 7.5 | 5.5 | | — | 47.5 | | 25.3 | 22.0 |
| AV2V2S100D | 10.0 | 7.5 | | — | 62.8 | | 32.2 | 28.0 |
| AV2V20010D | 1.0 | 0.7 | Three-phase 200 to 230 ± 15% | 5.6 | 4.8 | 0 to 230 | 4.8 | 4.2 |
| AV2V20020D | 2.0 | 1.5 | | 9.0 | 7.8 | | 7.8 | 6.8 |
| AV2V20030D | 3.0 | 2.2 | | 12.7 | 11.0 | | 11.0 | 9.6 |
| AV2V20050D | 5.0 | 3.7 | | 20.2 | 17.5 | | 17.5 | 15.2 |
| AV2V20075D | 7.5 | 5.5 | | 29.2 | 25.3 | | 25.3 | 22.0 |
| AV2V20100D | 10.0 | 7.5 | | 37.2 | 32.2 | | 32.2 | 28.0 |

**VARIABLE SPEED
PUMP CONTROLLER**
ELECTRICAL SPECIFICATIONS
Power and Current Ratings (continued)

| Model Number | Motor Power | | Input | | | Output Voltage (Vac) | Output Current (A) | |
|--------------|-------------|------|------------------------------|---------------------|-----------------|----------------------|--------------------|-----------------|
| | HP | kW | Voltage (Vac) | Maximum Current (A) | | | 200/380 Vac | 230/460/575 Vac |
| | | | | 200/380 Vac | 230/460/575 Vac | | | |
| AV2V20150D | 15.0 | 11.0 | Three-phase 200 to 230 ± 15% | 52.1 | 46.4 | 0 to 230 | 48.3 | 42.0 |
| AV2V20200D | 20.0 | 15.0 | | 53.9 | 47.4 | | 62.1 | 54.0 |
| AV2V40010D | 1.0 | 0.7 | Three-phase 380 to 460 ± 15% | 3.4 | 2.4 | 0 to 460 | 2.4 | 2.1 |
| AV2V40020D | 2.0 | 1.5 | | 5.2 | 3.9 | | 3.8 | 3.4 |
| AV2V40030D | 3.0 | 2.2 | | 7.2 | 5.6 | | 5.7 | 4.8 |
| AV2V40050D | 5.0 | 3.7 | | 12.0 | 8.8 | | 8.9 | 7.6 |
| AV2V40075D | 7.5 | 5.5 | | 15.0 | 12.8 | | 12.0 | 11.0 |
| AV2V40100D | 10.0 | 7.5 | | 19.7 | 16.3 | | 15.6 | 14.0 |
| AV2V40150D | 15.0 | 11.0 | | 30.9 | 25.8 | | 23.0 | 21.0 |
| AV2V40200D | 20.0 | 15.0 | | 40.0 | 33.3 | | 31.0 | 27.0 |
| AV2V40250D | 25.0 | 18.6 | | 49.2 | 40.0 | | 37.0 | 34.0 |
| AV2V40300D | 30.0 | 22.0 | | 57.5 | 47.8 | | 43.0 | 40.0 |
| AV2V40400D | 40.0 | 30.0 | | 62.3 | 53.3 | | 61.0 | 52.0 |
| AV2V40500D | 50.0 | 37.3 | | 69.0 | 58.0 | | 73.0 | 65.0 |
| AV2V40600D | 60.0 | 44.7 | | 82.0 | 68.8 | | 87.0 | 77.0 |
| AV2V40750D | 75.0 | 56.0 | | 98.3 | 82.2 | | 105.0 | 96.0 |
| AV2V50010D | 1.0 | 0.7 | Three-phase 575 ± 15% | — | 2.0 | 0 to 575 | — | 1.7 |
| AV2V50020D | 2.0 | 1.5 | | — | 3.6 | | — | 2.7 |
| AV2V50030D | 3.0 | 2.2 | | — | 5.0 | | — | 3.9 |
| AV2V50050D | 5.0 | 3.7 | | — | 7.6 | | — | 6.1 |
| AV2V50075D | 7.5 | 5.5 | | — | 10.4 | | — | 9.0 |
| AV2V50100D | 10.0 | 7.5 | | — | 14.1 | | — | 11.0 |
| AV2V50150D | 15.0 | 10.0 | | — | 20.8 | | — | 17.0 |
| AV2V50200D | 20.0 | 15.0 | | — | 27.8 | | — | 22.0 |
| AV2V50250D | 25.0 | 18.6 | | — | 33.4 | | — | 27.0 |
| AV2V50300D | 30.0 | 22.0 | | — | 39.1 | | — | 32.0 |
| AV2V50400D | 40.0 | 30.0 | | — | 52.0 | | — | 41.0 |