NOTICE - THIS DRAWING CONTAINS HYDRO-GEAR PROPRIETARY INFORMATION. NEITHER RECEIPT NOR POSSESSION THEREOF CONFERS ANY RIGHT TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR PART, ANY SUCH INFORMATION WITHOUT WRITTEN AUTHORIZATION FROM HYDRO-GEAR.

THE SPECIFICATIONS AND PRODUCT PROFILE DEPICTED HEREIN ARE APPROXIMATE REPRESENTATIONS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION. CONSULT YOUR HYDRO-GEAR REPRESENTATIVE TO OBTAIN THE ENGINEERING INFORMATION APPROPRIATE TO YOUR APPLICATION. TECHNICAL DATA: 1. BRUSHLESS DC MOTOR (BLDC) TOP 2. SYSTEM VOLTAGE: 48 VDC ≥ 1.5 kW (2 HP) 3. CONTINUOUS INPUT POWER 4. PEAK OUTPUT POWER ≥ 3 kW (4hp) 5. OPERATING/SWITCHING FREQUENCY: 16.6 kHz 1500 RPM TO 2900 (±5%) 6. MOTOR SPEED: 7. MAX CONTINUOUS CURRENT: 32 AMPS/MOTOR 8. OVER TEMPERATURE PROTECTION: MAXIMUM CASE TEMP IS 290F DETAIL C 9. MOTOR ENCLOSURE RATING: IP 65 CONNECTOR BOX FACING REAR OR 10. AMBIENT OPERATING TEMPERATURE: -10 TO 110 F (-23 TO 43 C) 11. THE 3Ø 8 AWG MOTOR LEADS (A, B, C) NEED TO CONNECT TO THE RESPECTIVE CENTER OF DECK A, B, C TERMINALS ON THE CONTROLLER, USING 1/4" RING TERMINALS 12. MOTORS MUST BE MOUNTED ON TOP OF THE DECK WITH THE ENTIRE HOUSING EXPOSED TO 3.983 3.943 1 MPH AIRFLOW (MINIMUM) IN THE MOUNTING ORIENTATION SHOWN. 3X 1.88 GROUND . 69 .192 2.015 .162 2.995 PIN 1 = NO CONNECTION PIN 2 = GROUND DETAIL G PIN 3 = +15V PIN 4 = HALL SENSOR A PIN 5 = HALL SENSOR B PIN 6 = HALL SENSOR C 6 PIN MOLEX CONNECTOR P/N 19429-0036 WITH TERMINAL P/N 19417-0048 IS USED ON BOTH DECK MOTORS:

THE MATING CONNECTOR IS MOLEX P/N 19418-0011 WITH MOLEX TERMINAL P/N 19420-0010 (PACKAGE TYPE) OR P/N 19420-0002 (REEL TYPE).

USE 20 AWG WIRE. 3X THE USE OF A WIRE HARNESS — TERMINATION COVER IS RECOMMENDED ON THIS ELECTRICAL TERMINATION -3X M6 X 1.0 CUSTOMER TO SUPPLY M6 X 1.0 NUTS AND LOCKING WASHERS TORQUE TO 35-55 IN-LBS PIN 2--ø5.2715 -ø5.2485 3X 4.76 ø6.150-DETAIL C ÿ.984+.000 -.002 .750 + .000 - .008 4X 5/16-24 UNC-2B DETAIL G BRUSHLESS DC MOTOR (BLDC) SHEET 1 OF 3 1.5 kWP/N 53316



