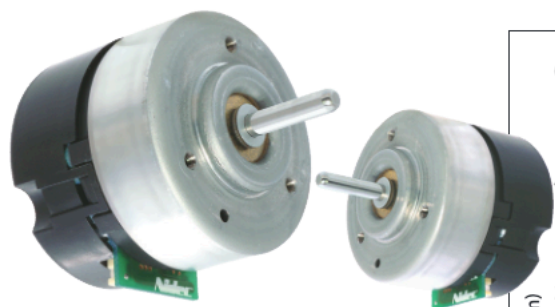
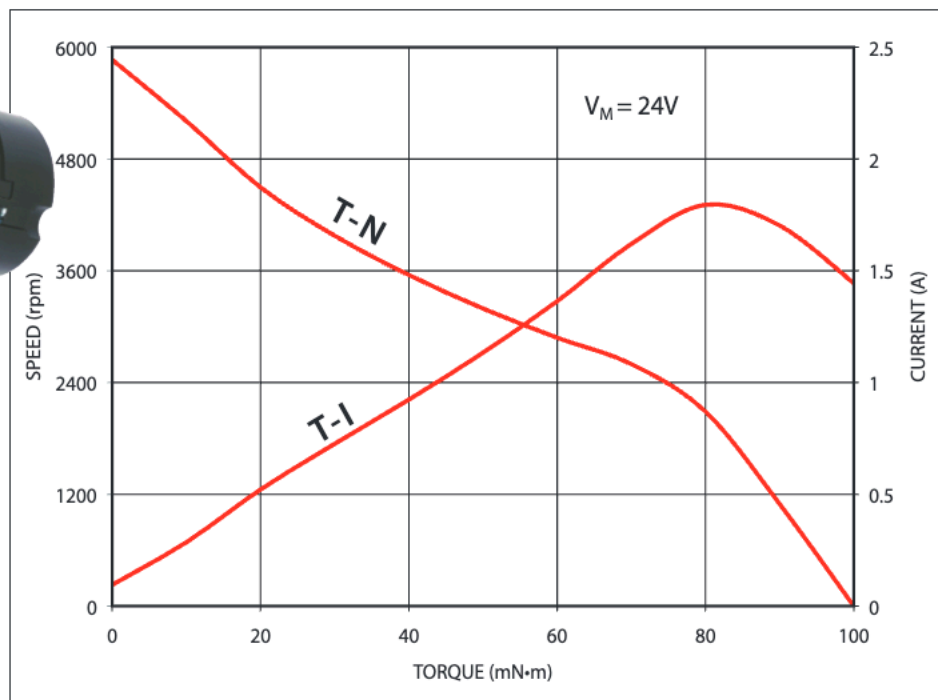


24H Brushless DC Motors

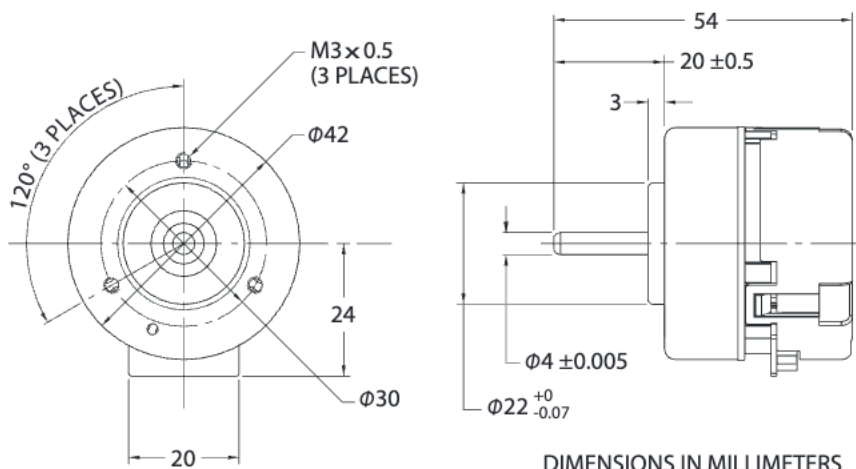
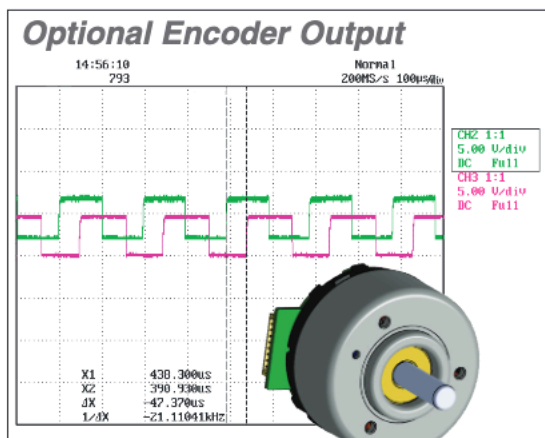
for Home Appliances and Office Equipment



- 3-Phase, 12-Pole Brushless Motors
- Logic-Controlled Clockwise or Counterclockwise Rotation
- Hall Effect Commutation
- Quiet Operation
- Low Inertia
- PWM Speed Control/Brake Function
- Open-Drain Tachometer
- Optional Dual Channel Phase-Tracking Encoder
- Locked Rotor Protection*
- Compact 42 (dia.) × 34mm Case



* Automatic shutdown at locked rotor condition: Restart at power OFF/ON.



DIMENSIONS IN MILLIMETERS

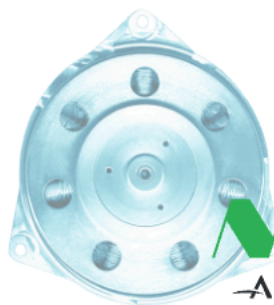
Pinout

Pin Function

- 1 Standard = No connection. Encoder option = Channel A output: 90° phase tracking, 100 pulses per revolution, HIGH = 5V, LOW = 0V.
- 2 Standard = Open-drain tachometer, six pulses per revolution, $I_C(\text{MAX}) = 3.0 \text{ mA}$. Encoder option = Channel B output: 90° phase tracking, 100 pulses per revolution, HIGH = 5V, LOW = 0V.
- 3 Standard = No connection. Encoder option = Logic supply, 5V $\pm 0.5\text{V}$.

Pin Function

- 4 $V_{IN}(\text{HIGH}) = 2.0\text{V}$ to 5.0V or OPEN = Clockwise, $V_{IN}(\text{LOW}) \leq 0.6\text{V}$ = Counterclockwise.
- 5 PWM: $f_{in} = 20 \text{ kHz}$ to 30 kHz , $V_{IN}(\text{LOW}) \leq 0.6\text{V}$, $V_{IN}(\text{HIGH}) = 2.0\text{V}$ to 5.0V , duty cycle = 20% to 100%.
- 6 Brake: $V_{IN}(\text{HIGH}) = 2.0\text{V}$ to 5.0V = OFF, $V_{IN}(\text{LOW}) \leq 0.6\text{V}$ = ON (motor stop).
- 7 Supply ground.
- 8 Motor supply voltage, 24V, nominal.



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