

## Models

### 1800 RPM Models

NTQPM-01-0218 2HP, 220-240 VAC

NTQPM-05-0218 2HP, 440-480 VAC

NTQPM-09-0218 2HP, 550-600 VAC

### 2400 RPM Models

NTQPM-02-0220 2HP, 220-240 VAC

NTQPM-06-0220 2HP, 440-480 VAC

NTQPM-05-0220 2HP, 550-600 VAC

## Key Features

- 30% to 50% reduction in wasted energy
- 4% to 20% reduction in energy usage
- Rapid payback – typically less than 18 months
- Exceeds NEMA Premium & IE3/IE4 efficiency standards
- Maintains high efficiency under partial load
- Superior low speed torque
- Standard NEMA frame sizes for easy substitution
- UL listed

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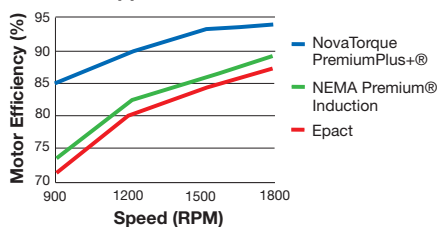


## NovaTorque 2HP PremiumPlus+® Motors

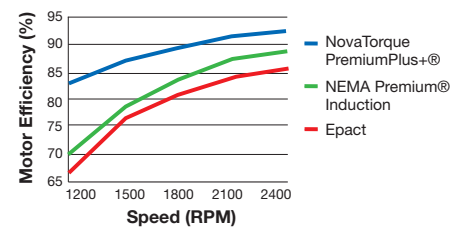
### Electronically Commutated Permanent Magnet (ECPM) Motors

NovaTorque motors are Electronically Commutated Permanent Magnet (ECPM) motors, also referred to as PMAC (Permanent Magnet AC) Motors, designed for variable speed applications. Like all PM motors they are inherently more efficient than induction motors, and that efficiency advantage expands under partial load. Unlike conventional PM motors, NovaTorque's unique patented rotor and stator geometry focuses magnetic flux, allowing the use of low cost ferrite, versus rare earth, magnets. Hence NovaTorque motors are priced to provide extraordinarily rapid payback on the initial investment.

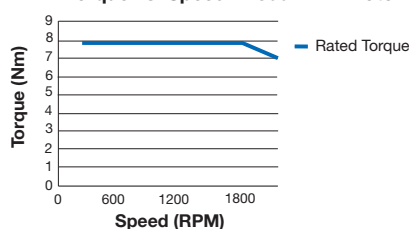
2HP Fan Application - 1800 RPM Motor



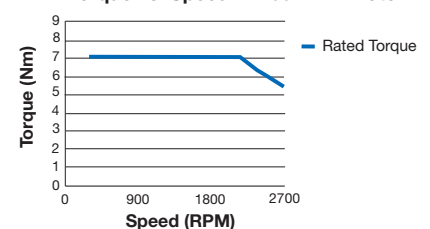
2HP Fan Application - 2400 RPM Motor



2HP Torque vs. Speed - 1800 RPM Motor



2HP Torque vs. Speed - 2400 RPM Motor



## 2HP PremiumPlus+<sup>®</sup> Motors

### Compatible Variable Frequency Drives (VFDs)

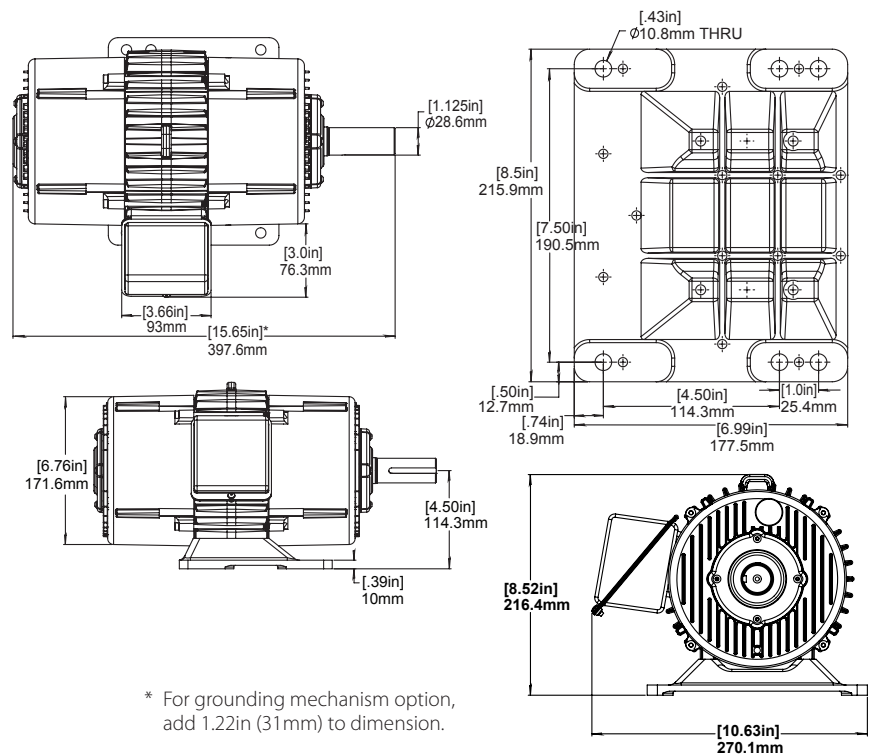
Like all permanent magnet motors, NovaTorque motors require a VFD to operate. Virtually all leading manufacturers of VFDs produce versions capable of sensorless control of PM motors. Consult NovaTorque Applications Engineering for compatible models and parameters.

## Specifications

Model	2HP 1800 RPM			2HP 2400 RPM		
	NTQPM-01-0218	NTQPM-05-0218	NTQPM-09-0218	NTQPM-02-0220	NTQPM-06-0220	NTQPM-05-0220
Rated Power (HP)	2.0	2.0	2.0	2.0	2.0	2.0
Phases	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase
Drive Supply Voltage	220-240 VAC	440-480 VAC	550-600 VAC	220-240 VAC	440-480 VAC	550-600 VAC
Rated Full Load Amps	4.4	2.2	1.8	5.0	2.5	2.0
Rated Efficiency	93.0	93.0	93.0	93.0	93.0	93.0
Rated Torque (Nm)	7.9	7.9	7.9	7.1	7.1	7.1
Rated Speed (RPM)	1800	1800	1800	2000	2000	2000
Rated Frequency (Hz)	120	120	120	133	133	133
Maximum Speed (RPM)	2050	2050	2050	2700	2700	2700
Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size	182T/184T	182T/184T	182T/184T	182T/184T	182T/184T	182T/184T
Enclosure	TENV	TENV	TENV	TENV	TENV	TENV
Weight	72 lbs	72 lbs	72 lbs	72 lbs	72 lbs	72 lbs
Maximum Winding Temperature	130 deg C	130 deg C	130 deg C	130 deg C	130 deg C	130 deg C
Insulation Grade	Class F	Class F	Class F	Class F	Class F	Class F
Ambient Temperature Rating	-10 to 40 deg C	-10 to 40 deg C	-10 to 40 deg C	-10 to 40 deg C	-10 to 40 deg C	-10 to 40 deg C
Ingress Protection	IP 40 Standard IP 54 Optional	IP 40 Standard IP 54 Optional	IP 40 Standard IP 54 Optional	IP 40 Standard IP 54 Optional	IP 40 Standard IP 54 Optional	IP 40 Standard IP 54 Optional

## Dimensions

### 2HP 182T/184T



\* For grounding mechanism option, add 1.22in (31mm) to dimension.



For more information, visit the NovaTorque website, [www.novatorque.com](http://www.novatorque.com)