

Models

- NTQPM-1B-1B06-2** 1.5HP, 220-240 VAC
- NTQPM-1F-1B06-4** 1.5HP, 440-480 VAC
- NTQPM-1H-1B06-5** 1.5HP, 550-600 VAC

Key Features

- Greater than 50% reduction in wasted energy
- Significantly lower current requirement (FLA) than AC induction motor alternatives, enabling lower cost drive options
- 4% to 20% reduction in energy usage
- Rapid payback – typically less than 18 months
- Maintains high efficiency under partial load
- Superior low speed torque
- Standard NEMA frame sizes for easy substitution
- UL listed

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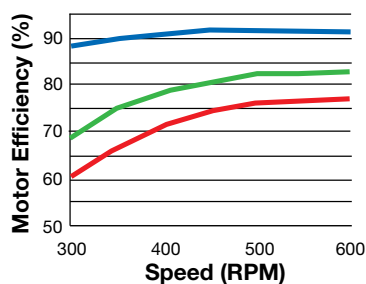


NovaTorque 1.5HP 600 RPM PremiumPlus+® Motors

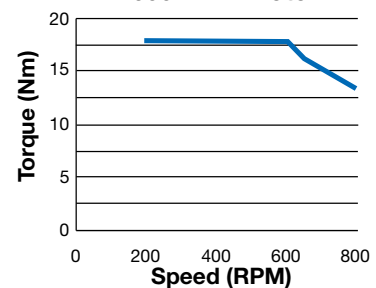
Electronically Commutated Permanent Magnet (ECPM) Motors

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 to provide extraordinarily rapid payback on the initial investment.

**1.5HP Variable-Torque Application
600 RPM Motor**



**1.5HP Torque vs. Speed
600 RPM Motor**



- NovaTorque PremiumPlus+®
- Typical 6-Pole Induction Motor
- Typical 8-Pole Induction Motor

- Rated Torque

PRELIMINARY

1.5HP 600 RPM PremiumPlus+[®] 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

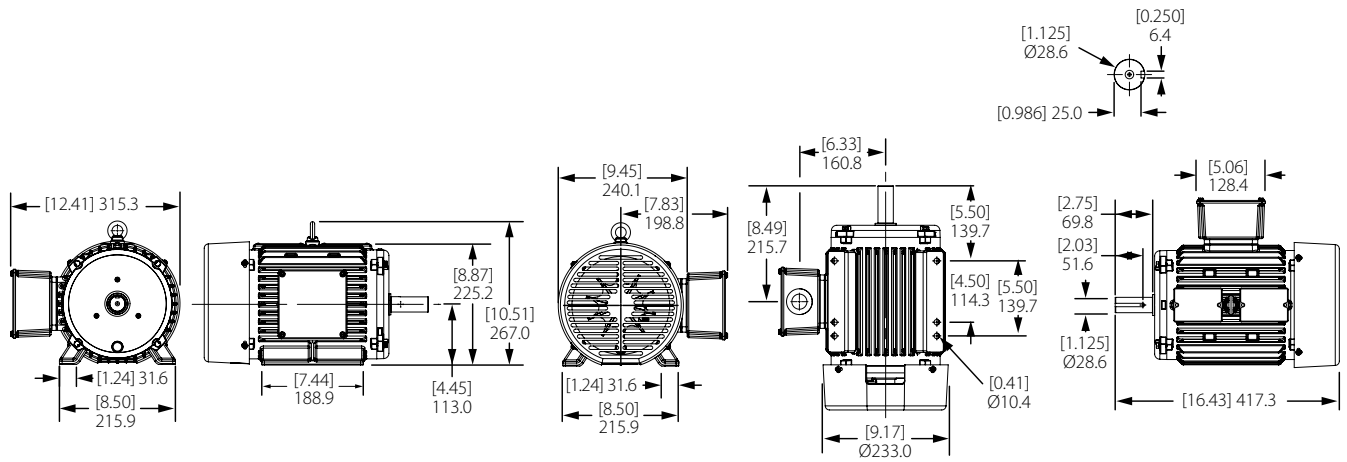
Model	NTQPM-1B-1B06-2	NTQPM-1F-1B06-4	NTQPM-1H-1B06-5
Rated Power (HP)	1.5	1.5	1.5
Phases	3-Phase	3-Phase	3-Phase
Drive Supply Voltage	220-240 VAC	440-480 VAC	550-600 VAC
Rated Full Load Amps	4.0	2.0	1.7
Rated Efficiency	91.5	91.5	91.5
Rated Torque (Nm)	17.8	17.8	17.8
Rated Speed (RPM)	600	600	600
Rated Frequency (Hz)	30	30	30
Maximum Speed (RPM)	800	800	800
Service Factor	1.15	1.15	1.15
Frame Size	182T/184T	182T/184T	182T/184T
Enclosure	TEFC	TEFC	TEFC
Weight	105 lbs	105 lbs	105 lbs
Maximum Winding Temperature	130 °C	130 °C	130 °C
Insulation Grade	Class F	Class F	Class F
Ambient Temperature Rating	-25 to 40 °C	-25 to 40 °C	-25 to 40 °C
Ingress Protection	IP 41 Standard IP 54 Optional	IP 41 Standard IP 54 Optional	IP 41 Standard IP 54 Optional

C-Face, JM-Type, JP-Type available

Dimensions

182T/184T

[in] mm



All Dimensions Nominal