



# NOVAMAX<sup>®</sup> EC PERMANENT MAGNET MOTOR

## THE NEXT STEP IN ELECTRIC MOTOR EFFICIENCY

The NovaMAX motor's innovative design offers very high efficiency performance levels of IE4, IE5 or even higher.

The motor also maintains efficiency over a broad range of speed and load, providing an ideal solution where superior part load performance is required.

## FEATURES

- .75- 20 HP (.56 – 15 kW)
- Variable speed (requires VFD)
- 600-3600 RPM
- Voltage 230, 460, 575
- 50/60 HZ
- NEMA/IEC – 180/112 and 210/132
- CE & UL Certification
- IP54
- Models – TEAO, TENV, TEFC
- C-Face available
- Frames – cast iron & cast aluminum

Efficiency of NovaMAX <sup>®</sup> Motors by Rated Power and Speed						
HP	600 RPM	900 RPM	1200 RPM	1800 RPM	2400 RPM	3600 RPM
<b>3/4</b>	92.5%	90.0%				
<b>1</b>	92.5%	92.0%				
<b>1.5</b>	91.5%	93.0%	92.5%			
<b>2</b>	94.0%	93.0%	93.0%	93.0%	91.0%	
<b>3</b>	93.5%	94.5%	93.5%	94.0%	93.5%	92.4%
<b>5</b>		94.0%	94.0%	94.0%	94.0%	93.0%
<b>7.5</b>			93.5%	95.0%	95.0%	93.5%
<b>10</b>				95.0%	95.0%	94.0%
<b>15</b>					95.4%	94.0%
<b>20</b>						94.5%

NovaMAX motor 182/184 Frame  
 NovaMAX motor 213/215 Frame

3 HP 900 RPM is available in 182/184 frame at 90% efficiency and in a 213/215 frame at 94.5% efficiency  
 7.5 HP 2400 RPM is available in 182/184 frame at 93.5% efficiency and in a 213/215 frame at 95% efficiency



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## NovaMAX<sup>®</sup> Motor

### Fan Operating Points

Max Output Power (BHP):

Max Speed (rpm):

Speed 2 (rpm):

Speed 3 (rpm):

### Duty Cycle

Duty Cycle Selection

Percent Time at Max Speed:

Percent Time at Speed 2:

Percent Time at Speed 3:

### Motors / Power Cost

Motor Voltage Class

Number of Motors:

Power Cost (\$/kW-hr):

Time Interval (Months):

### Savings

NovaMAX Motor:

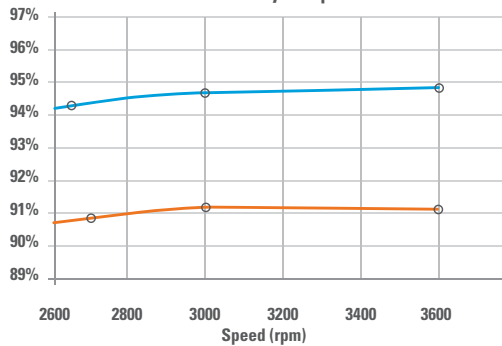
AC Induction Motor:

12 Month Energy Savings (kW-hr)

12 Month Cost Savings (Dollars)

# Operating Points

Motor Efficiency Comparison



Calculate Savings

Download PDF

- NovaMAX Motor
- Premium Induction
- Fan Operating Speeds



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[www.novamaxmotor.com](http://www.novamaxmotor.com)

Applications: Data centers, air handling, pumps, manufacturing and conveyors

**marathon<sup>®</sup>**  
 Motors

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#### APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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