



INDUSTRIAL ENDURANCE SERIES™ LARGE NEMA® AND IEC® AC LOW & MEDIUM VOLTAGE MOTORS

JANUARY 2022 | NORTH AMERICA, LATIN AMERICA



ENDURANCE SERIES™

LARGE, ROBUST MOTORS FOR HEAVY DUTY AND EXTREME APPLICATIONS

The Marathon® Endurance Series™ motors are the right choice for applications demanding ruggedness and high reliability.

Users recognize the value of Marathon® motors and their ability to support multitude applications with high efficiency and longer performance. Every Marathon Endurance Series™ Motor is backed by more than 100 years of manufacturing experience, plus state-of-the-art engineering and production, along with comprehensive service, starting in the earliest planning stages of your motor.

STANDARD FEATURES

Conduit box is large size and built of cast iron or fabricated steel. IEC®* frame medium voltage motors feature termination connections on standoff insulators (optional on NEMA®* frame motors).

End turn bracing yields long life and is designed to minimize the effects of coil fatigue from frequent starts, yet it allows for thermal expansion under full load temperatures.

Corrosion protection against the effects of hostile atmospheres eases hardware removal for regular maintenance inspections. All large motor rotors are epoxy-coated for added protection against chemical attack. The motor nameplate is stainless steel.

Anti-friction bearings are normally used in applications where high radial or axial thrust loading is common. The bearing chamber and lubrication system are designed with an ample grease supply, safely extending maintenance intervals. Sleeve bearing is optional on IEC frames.

*The following trademarks are not owned by or under the control of Regal Rexnord Corporation: NEMA is a trademark or tradename of National Electrical Manufacturers Association; IEC is a trademark or trade name of International Electrotechnical Commission.

ROBUST CONSTRUCTION FOR DEMANDING APPLICATIONS



MOTORS

A HISTORY OF RELIABILITY

Since 1913, the name Marathon has been associated with highly reliable electric motors.

Today, Marathon® Motors raises the bar with the Endurance Series™ of large AC medium voltage motors. With capabilities up to 10,000 horsepower, our unique stock program delivers fast lead time through 2500 horsepower motors.

- ODP (Open Dripproof)
- WPI (Weather Protected Type I)
- WP II (Weather Protected Type II)
- TEFC (Totally Enclosed Fan Cooled)
- TEAAC (Totally Enclosed Air-to-Air Cooled)
- TEWAC (Totally Enclosed Water-to-Air Cooled)

IEC®* designs in WPI, WP II and TEAAC enclosures have fabricated steel modular-type construction consisting of a basic reinforced fabricated steel plate lower frame and cast iron bearing brackets, and a unique “top hat” kit to complete the enclosure and selected ventilation scheme.

ODP and TEFC enclosures feature cast iron frames and brackets with horsepower ratings through 1750 (ODP) and 2500 (TEFC) and voltages from 460 through 13.2kV. Rotor construction options include die cast aluminum (lower HP, LV) and fabricated copper bar with brazed end rings.

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LARGE AC MOTORS - NEMA® FRAME



Features	ODP OPEN DRIP-PROOF	WPI Weather Protected Type 1	WPII Weather Protected Type 2	TEFC Totally Enclosed Fan Cooled
Frame sizes	5008-5810	5008-5810	5008-5810	5009-5813
Maximum horsepower	1750			500
Frequency	60 or 50 HZ			
Voltage	380 through 4160			
Poles	2-6 Pole			
Efficiency grade	Premium per NEMA Table 20-2			
Insulation system	Class F or H(LV), MAX GUARD® Class F, VPI(MV), MAXGUARD			
Frame construction	Cast Iron			
Ingres protections	IP23		IP24	IP55 or IP56
Service factor	1.15 at 60Hz			
Starting type	ACL (DOL), Wye-Delta, VFD			
Bearing type	Antifriction ball			Antifriction ball or roller
Terminal box	NEMA Type 2			
Protection	100Ω stator RTDs			
Space heater	120VAC single phase			
Paint	RAL 5011 Blue			

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OPTIONAL ACCESSORIES

- Axial or Radial Blowers
- Encoders
- Brakes
- Shaft Grounding Devices
- 100 OHM Platinum Bearing Rtds
- Vibration Detector
- Lightning Arrestors
- Current Transformers
- Surge Capacitors
- Low Noise Enclosure
- Inpro/Seal®*



RIES™ MOTORS

LARGE AC MOTORS - IEC®* FRAME



Features	ODP Open Drip-Proof	WPI Weather Protected Type 1	WPII Weather Protected Type 2	TEFC Totally Enclosed Fan Cooled†	TEAAC Totally Enclosed Air-To-Air
Frame sizes	355-710			355-560	355-710
Maximum horsepower	7500			2500	6500
Frequency	60 or 50 Hz				
Voltage	2300 through 13.8kV			380 through 13.8kV	2300 through 13.8kV
Poles	4-12 Pole			2-8 Pole	4-12 Pole
Efficiency grade	Premium through 2500 HP, per NEMA®** Table 20-C				
Insulation system	Class F, VPI MAX GUARD®				
Frame construction	Fabricated Steel			Cast Iron	Fabricated Steel
Ingres protections	IP23	IP24		IP55	
Service factor	1.15 at 60Hz and 1.0 at 50HZ†				
Starting type	ACL (DOL), Wye-Delta, VFD				
Bearing type	355-630 Ball, 710 Sleeve			2P : 355-450 Ball 2P: 500-560 Sleeve 4P & above: Ball	355-630 Ball, 710 Sleeve
Terminal box	NEMA Type 2 upto 4160V, above this voltage is quoted case by case				
Protection	100Ω stator RTDs, Bearing RTDs				
Space heater	120VAC single phase				
Paint	RAL 5014 Blue				

Note: 2P-60HZ OR VFD motor need quote case by case.

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OPTIONAL ACCESSORIES

- Axial or Radial Blowers
- Encoders
- Brakes
- Shaft Grounding Devices
- Vibration Detector
- Lightning Arrestors
- Current Transformers
- Surge Capacitors
- Low Noise Enclosure
- Inpro/Seal®*



ENDURANCE SERIES™ MOTORS

FRAME SPECIALTY MOTORS



Features	LN-ODP Low Noise Open Drip Proof	TEWAC Totally Enclosed Air-To-Water	LN-ODP Low Noise Open Drip-Proof	TEAAC Silenced Totally Enclosed Air-To-Air
Frame sizes	5008-5810	355-710	355-560	
Max. horsepower	1750	7500	4750	4000
Frequency	60 or 50 Hz	60 or 50 Hz	50 Hz	
Voltage	380 through 4160	2300 through 13.8kV	2300 through 10kV	
Poles	2-6 Pole	2-12 Pole	2 Pole	
Efficiency grade	Premium through 2500 HP, per NEMA®* Table 20-C			
Insulation system	Class F or H(LV), MAX GUARD® Class F, VPI(MV), MAX GUARD	Class F, VPI, MAX GUARD		
Frame construction	Cast iron	Fabricated steel		
Ingres protections	IP23	IP54	IP23	IP55
Service factor	1.15 at 60Hz	1.15 at 60Hz and 1.0 at 50Hz	1.0 at 50Hz	
Starting type	ACL (DOL), Wye-Delta, VFD			
Bearing type	Antifriction ball	2P : 355-450 Ball, 2P:500-560 Sleeve 4P & above: Ball	355-450 Ball, 500-560 Sleeve	
Terminal box	NEMA Type 2	NEMA Type 2 upto 4160V, above this voltage's is quoted case by case		
Protection	100Ω stator RTDs	100Ω stator RTDs, bearing RTDs		
Space heater	120VAC single phase			
Paint	RAL 5011 blue	RAL 5014 blue		

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OPTIONAL ACCESSORIES

- Encoders
- Brakes
- Vibration Detector
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- Lightning Arrestors
- Current Transformers
- Surge Capacitors
- Low Noise Enclosure
- Inpro/Seal®*



WE PROVIDE OVER 700 POSSIBLE CONFIGURATIONS

All configurations
can be ready for use
in as early as 4 weeks!

Our wide variety of features include:

- LOW & MEDIUM VOLTAGE • 300-2500HP • 2, 4 AND 6 POLE
- NEMA®* AND IEC®* FRAMES • ODP, WPI, WP11 • TEFC AND TEAAC

STOCK AND MODIFICATION PROGRAM

CATEGORY	MODIFICATION DESCRIPTION	5008-5013	5808-5810	355	400	450	500	560
Altitude/Ambient rerate	Change nameplate markings	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Balance/Vibration	Precision balance to 0.08"/sec	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Bearing - Insulated	Install insulated bearing ODE	OPT	OPT	STD	STD	STD	STD	STD
Conduit Box	Oversized terminal box	STD	STD	STD	STD	STD	STD	STD
Conduit Box	NEMA Type 2 terminal box	STD	STD	STD	STD	STD	STD	STD
Cable gland	Install cable gland	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Condensation hole/Breather - Term. box	Install breather in terminal box	OPT ¹	OPT ¹	OPT	OPT	OPT	OPT	OPT
Coupling	Install customer-supplied half coupling	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Differential pressure switch	Install differential pressure switch - WP11	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Filter - WP11	Galvanized	OPT	OPT	STD	STD	STD	STD	STD
Filter - WP11	Stainless steel	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Frame/Base	Dowel pin holes	STD	STD	STD	STD	STD	STD	STD
Frame/Base	Vertical jacking provision	STD	STD	STD	STD	STD	STD	STD
Frequency	Frequency rerate to 50 Hz	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Grease/Lubrication/Fittings	Contact factory for high or low temp grease	STD	STD	STD	STD	STD	STD	STD
Grounding	Terminal Box	STD	STD	STD	STD	STD	STD	STD
Grounding	On-Frame Grounding	STD	STD	STD	STD	STD	STD	STD
Internal corrosion protection	Corrosion resistant coating	STD	STD	STD	STD	STD	STD	STD
Leads	Longer leads - spliced	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Low noise - ODP and WPI	Low noise hood installation	OPT	OPT	N/A	N/A	N/A	N/A	N/A
Mounting	F1 to F2 Conversion	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Packaging	Export Packaging	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Protection - Thermal	Resistance Temp Detectors	STD	STD	STD	STD	STD	STD	STD
Protection - Thermal	Thermistors	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Protection - Thermal	Thermostats	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Protection - Thermal	Thermistor control module	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Service Factor	Rerate Service Factor	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Shaft Seals	Labyrinth seals	OPT	OPT	STD	STD	STD	STD	STD
Shaft Seals	Inpro/Seals®*	OPT ¹	OPT ¹	OPT	OPT	OPT	OPT	OPT
Shaft Seals	Lip seals - Oil	OPT ¹	OPT ¹	OPT	OPT	OPT	OPT	OPT
Space Heater	Install 120V space heaters	STD	STD	STD	STD	STD	STD	STD
Testing	Contact factory	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Vibration	Install vibration detector	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Weatherproofing/Special Service	Division 2 Hazardous Location	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Weatherproofing/Special Service	Tropical Anti-Fungus Treatment	OPT ¹	OPT ¹	OPT	OPT	OPT	OPT	OPT

STD - standard feature on motor

OPT - optional feature on motor

¹ - Not available on 5008-5810 ODP/LN-ODP/WPI/WP11 motors

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marathon[®]
Motors



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To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale> (which may redirect to other website locations based on product family).

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