

Blue Chip[®] Automotive Duty Motors

TEFC Motors that Exceed the Toughest Standards in the Automotive Industry Today...



Blue Chip XRI[®]
Severe Duty

Marathon Electric's Blue Chip XRI[®] Automotive Duty Motors are designed tough with built-in reliability for years of trouble free service. Totally enclosed severe duty construction and additional epoxy coatings protect against the harshest environments, thus prolonging life and reducing unnecessary downtime.

Rugged die cast aluminum rotors are precision balanced. This reduces overall system vibrations, thereby increasing equipment longevity. Vibration tests are documented and shipped with each motor as standard.

Our Blue Chip XRI[®] Automotive Duty Motors are inverter duty rated and incorporate our exclusive MAX GUARD[®] insulation system which combines corona resistant magnet wire and a unique "low stress" winding configuration. The Blue Chip XRI[®] Automotive Duty Motor offers no lead length restrictions and provides for power matched performance with all manufacturers of AC drives.

The Blue Chip XRI[®] Automotive Duty Motors exceed EPA and NRECA efficiency requirements and are energy compliant to the highest efficiency levels in the motor industry as promoted by the Consortium for Energy Efficiency (CEE).

The Blue Chip XRI[®] Severe Duty motor meets Ford's EM-1 specifications for automotive duty motors. These motors incorporate features that guarantee years of high performance in the most demanding automotive applications from parts forming, metal cutting, and assembly to test stands. These motors meet or exceed the vibration, temperature rise, and sound levels contained within the motor industries toughest specification.

The Blue Chip XRI[®] IEEE-841 automotive duty motor meets General Motors 7E-TA specification for sound levels, vibration, and temperature rise. These motors incorporate an Inpro/Seal[®] VBX bearing isolator for added protection against corrosive environments. This added protection shields vital components from metal chips, cutting fluids, and oil-based contaminants.

The Blue Chip XRI[®] Severe Duty and Blue Chip XRI[®] IEEE-841 motors are provided with actual test and vibration data for added assurance of quality.



Blue Chip XRI[®] IEEE-841

U-Frame Motors that are Driven to be the Best...

Our U-Frame motors are available to meet a wide range of performance requirements, from 3/4 through 100 horsepower. These motors incorporate rugged cast iron construction that resists vibration and shock in the most demanding industrial applications.

Marathon Electric's U-Frame motors have built-in features like premium energy efficient designs, C-Face kits, and power matched performance with all AC drive manufacturers. These industry work horses provide excellent value and dependable performance you can count on in tough, dirty, oil-laden environments.

These motors meet DaimlerChrysler NPEM-100 and NPEM-105, Ford EM-1, and General Motor's GM-7EH and GM-7EQ specifications.



U-Frame
Standard and Premium
Efficient Designs

Motors for the Long Run!

 **MARATHON[®]
ELECTRIC**
Marathon Electric Manufacturing Corporation

Quality Automotive Duty Motors

Motors That Run the Toughest Applications

Totally Enclosed Fan Cooled Motor Features...

- Meets Ford EM-1 and General Motor's GM 7E-TA Specification
- XRI® Severe Duty IP-54 Construction, XRI® IEEE-841 IP-56 Construction
- Inverter Duty Rated with MAX GUARD® Insulation System
- Extended Grease Tubes, Regreasable in Service
- CSA Certified for Division II Hazardous Locations, Class I, Groups A, B, C, and D, Temperature Code T2B
- Actual Test and Vibration Data Supplied With Each Motor
- Brass Drain and Breather
- Less than 80 dBA Sound Pressure on Most Ratings
- UL Recognized and CSA Certified
- Higher efficiency levels as promoted by Consortium for Energy Efficiency (CEE)
- Power Matched for Use With All Drive Manufacturers
- Inpro/Seal® VBX bearing isolators for Added Protection (Standard on Blue Chip XRI® IEEE-841, GM 7E-TA)
- Oversized bearings with bearing caps (254T-449T) L-10 life of 100,000 hours for direct coupled loads
- Super-premium POLYREX® EM high-temperature polyurea grease for bearing lubrication
- Internal and External Epoxy Coatings
- 3 Year Warranty for Blue Chip XRI® Severe Duty Motors
- 5 Year Warranty for Blue Chip XRI® IEEE-841 Motors

U-Frame Motor Features...

- Standard Efficient design meets General Motors GM-7EO and satisfies DaimlerChrysler NPEM-100 and Ford EM-1.
- Premium Efficient design meets General Motors GM-7EO & GM-7EH and satisfies DaimlerChrysler NPEM-100, NPEM-105 and Ford EM-1
- 100% Cast Iron Construction
- Class F Insulation System, 65° C Temperature Rise at Full Load
- Inverter Rated for Use With Adjustable Frequency Drives
- UL Recognized and CSA Certified
- Exceeds EPAAct '92 and NRCAN Efficiency Levels
- Regreasable Ball Bearings
- Corrosion Resistant Paint
- Dynamically Balanced for Low Vibration
- Oversized Bearings Yields Longer, More Dependable Service Life
- Super-premium POLYREX® EM high-temperature polyurea grease for bearing lubrication
- Oversized, Fully Gasketed, Cast Iron Terminal Box
- Exceeds NEMA MG-1, Section IV, Part 31 Spike Resistance Requirements
- NEMA Design B Performance
- Single Voltage 3-Lead Connection
- Meets Automotive Requirements for Sound Power Levels
- 5 Year Warranty



Blue Chip XRI® Severe Duty
Meets Ford EM-1 T-Frame



Blue Chip XRI® IEEE-841
Meets General Motors GM 7E-TA



U-Frame Premium Efficient
Meets GM-7EO and GM-7EH



Made in the U.S.A.

Motors for the Long Run! For more information contact :

**RUNS.
AND RUNS.
AND RUNS.
AND RUNS.**



MARATHON
ELECTRIC®

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