

# TOSHIBA

Leading Innovation >>>

## EQP Global<sup>®</sup> 840

**Efficiency, Quality, & Performance (EQP)—**  
The EQP Global<sup>®</sup> 840 motor series is Toshiba's next-generation NEMA Premium<sup>®</sup> efficiency motor series.

This cutting-edge motor product line is designed to meet or exceed the competitive demands of the global market, as well as the amended integral horsepower (HP) rule IHMR 2016, while maintaining the high reliability and quality expected from Toshiba.

The EQP Global 840 specifically addresses the needs of the mill and chemical industries, incorporating many key features of an IEEE-841 motor. Building on over 20 years of success with our EQPIII motor series, the EQP Global 840 features design enhancements on the rotor, frame, brackets, fan, and bearings.

Our EQP philosophy extends beyond great products. We provide solutions and Global Supply Chain Management Systems (GSCMS) to meet the evolving needs of our global customers.

- NEMA Premium<sup>®</sup> Efficiency (1 through 500 HP)
- Addresses Global Motor Specifications Including CE & NEMA
- Dual-Frequency 50/60 Hz Design (50/60 Hz Listed on Nameplate on 1 through 75 HP)
- Exceeds NEMA MG1 Part 31 (Inverter Duty)
- Multi-Mount on 140 Through 445 & N449 Frames



**3** THREE YEAR WARRANTY

Horsepower	3/4 to 500 HP
Speed (60 Hz) (50 Hz)*	3600, 1800, 1200, or 900 RPM 3000, 1500, or 1000 RPM
Voltage (60 Hz) (50 Hz)*	460 or 575 V 380 V (1-75 HP, 365T Frame)
Enclosure	Totally Enclosed Fan Cooled
Frame Size	143T through 5810UZ
Protection	IP55 or IP56
Construction	All Cast Iron
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration (Unfiltered)	Typically 0.06 Inches/Second or Less
Mounting	Motors Suitable for Horizontal & Vertical Mounting; Motors also Available with C-Face Mounting
Environment	Severe Duty, Suitable for Use in Class I Division 2 Hazardous Locations

\*50/60 Hz Listed on Nameplate on 1 through 75 HP



# EQP GLOBAL 840

LOW VOLTAGE MOTOR  
MILL & CHEMICAL DUTY





## BUILT FOR MILL & CHEMICAL DUTY APPLICATIONS



### Nameplate

- Stainless Steel 304
- NEMA Premium® Design
- Etched or Engraved Lettering
- Inverter-Duty Rating on Nameplate
- Separate Lubrication Label 280 Frame & Larger
- Marine Duty IEEE 45



### Construction

- Cast Iron Frame, Fan Cover, Conduit Box & Bearing Brackets
- Multi-Mount Construction
- Lead Seal Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.06 Inches/Second or Less
- Protective Coating on All Internal Machined Surfaces
- IP55 or IP56 Protection
- Multiple Drain Provisions for Horizontal & Vertical Mounting



### Conduit Box

- Gasketed Cast Iron Construction
- UL Ground Lug
- Lead-Separation Protection
- Terminal Lugs on Frame 210 & Larger
- Rotatable (90°)
- NPT Drill & Tap Conduit Opening



### Bearing System

- Oversized 300 Series Bearings on All Frames (DE & ODE)
- Low Temperature Rise for Extended Life
- L-10 Bearing Life of 150,000 Hours Direct-Coupled
- L-10 Bearing Life of 40,000 Hours Belted
- Shaft/Slinger Bearing Protection 140 to 280 Frame
- Double Shaft Seal Arrangement 324T-365T Frame on Both Ends
- Labyrinth Seal 404T Frame & Larger, Both Ends



### Insulation System

- Low-Loss Electrical Steel
- Exceeds NEMA MG1 Part 31
- 20:1 Constant Torque & 60:1 Variable Torque (1 to 200 HP, 4- & 6-Pole Sine Wave Power)
- Voltage Withstand Capability of 2000 V in 0.1 µs
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends on All Motor Ratings



### Testing

- 100% No-Load Commercial Test per IEEE 112 on All Motors

TOSHIBA				MILL & CHEMICAL DUTY		EQP Global 840	
MARINE DUTY IEEE 45	MODEL NO.	HP	KW	RPM	FRAME TYPE	ENCL. TYPE	NEMA PREMIUM DESIGN
	SERIAL NO.	VOLT	AMP	P.F.	FORM	INS. DUTY	
	Hz	S.F.	NEMA NOM EFF	MAX SAFE RPM	IP:	MAX. AMB. °C	NEMA 21
					WT. Kg.	Lbs.	
	HP	KW	AMP	RPM	O.S.:	L.S.:	CE
	VOLT	Hz	S.F.	P.F.	CODE	MFG. DATE	
	NEMA NOM EFF	NOM EFF (3/4)	NOM EFF (1/2)			USABLE ON V, AT	e
						USE POLYUREA BASED GREASE*	
	CSA CERTIFIED-CL 1, DIV 2, GRP A, B, C, D/ZONE 2 GRP IIA, IIB, IIC; SINEWAVE - T3 1.15SF OR T3C 1.05F, OR VPPWM VFD T3 1.05F - 60:1VT, 10:1CT, 1:1.5CHF.						
	V505-ADN TOSHIBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS MADE IN VIETNAM						

