

**TOSHIBA**  
Leading Innovation >>>

**EQP Global**<sup>®</sup>  
841



**5** FIVE YEAR WARRANTY

**Efficiency, Quality, & Performance (EQP) – The EQP Global<sup>®</sup> 841 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 841 specifically addresses the needs of the petrochemical industry, where premium performance and reliability are imperative. Building on over 20 years of success with our EQPIII motor series, the EQP Global 841 features design enhancements on the rotor, stator, 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 per IHMR Effective June 1, 2016
- Addresses Global Motor Specifications Including CE, NEMA
- Exceeds NEMA MG1 Part 31 (Inverter Duty)
- Multi-Mount on 140 Through N449 Frames

Horsepower	3/4 to 400 HP
Speed (60 Hz)	3600, 1800, or 1200 RPM
Voltage (60 Hz)	460 or 575 V
Enclosure	Totally Enclosed Fan Cooled
Frame Size	143T through 449T
Protection	IP56
Construction	All Cast Iron
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration (Unfiltered)	Typically 0.04 Inches/Second or Less
Mounting	Suitable for Horizontal & Vertical Mounting; Also Available with C-Face Mounting
Environment	Severe Duty, Suitable for Use in Class I Division 2 Hazardous Locations



**EQP GLOBAL 841**

**LOW VOLTAGE MOTOR  
PETRO-CHEMICAL DUTY**





## BUILT FOR PETRO-CHEMICAL DUTY APPLICATIONS



### Nameplate

- Stainless Steel (304)
- NEMA Premium® Design
- Raised Letters for Clarity
- Inverter-Duty Rating on Nameplate Class I, Division 2
- Separate Lubrication Label on All Frames



### Construction

- Cast Iron Frame & Bearing Brackets
- Multi-Mount Construction
- Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.04 Inches/Second or Less
- Protective Coating on All Internal Machined Surfaces
- IP56 Protection
- Multiple Drain Provisions for Horizontal & Vertical Mounting



### Conduit Box

- Gasketed Cast Iron Construction
- UL Ground Lug
- Lead-Separation Protection
- Terminal Lugs on All Frames
- 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 50,000 Hours Belted
- Labyrinth Seal on All Frames, Both Ends
- Open Regreasable on All Frames



### Insulation System

- Exceeds NEMA MG1 Part 31
- 10:1 Constant Torque & 60:1 Variable Torque
- 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 & Vibration Test on All Motors
- Commercial Test Report with Vibration Data Supplied with All Motors

TOSHIBA		PETRO-CHEMICAL DUTY EQP Global 841	
MODEL NO. B1504FLF4BSHJ01	FRAME 445T	ENCL. TEFC	NEMA B
SERIAL NO:	HP 150 kW 110 RPM 1785	TYPE TKKH	INS. F
MEETS IEEE 841-2009	VOLT 460 AMP 177	FORM FBK1	IP: 56 DUTY CONT
MARINE DUTY	Hz 60 S.F. 1.15 P.F. 83.5 CODE G	PH. 3	MAX. AMB. 40 °C
IEEE 45	NEMA NOM EFF 95.8 MAX SAFE RPM -	WT. 982 kg 2164 Lbs.	
	GUAR. MIN EFF 95.4	O.S.: 90BC03J30X (6318C3)	
		L.S.: 90RU03J30X (NU318C3)	
	INVERTER DUTY, VPWM, 1.0 SF, VF=1~60Hz, CT=3~60Hz	USE POLYUREA BASED GREASE	
		MFG. DATE	
U621-ADN	TOSHIBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS MADE IN THE USA WITH DOMESTIC AND FOREIGN COMPONENTS		

