TOSHIBA

LOW VOLTAGE MOTORS

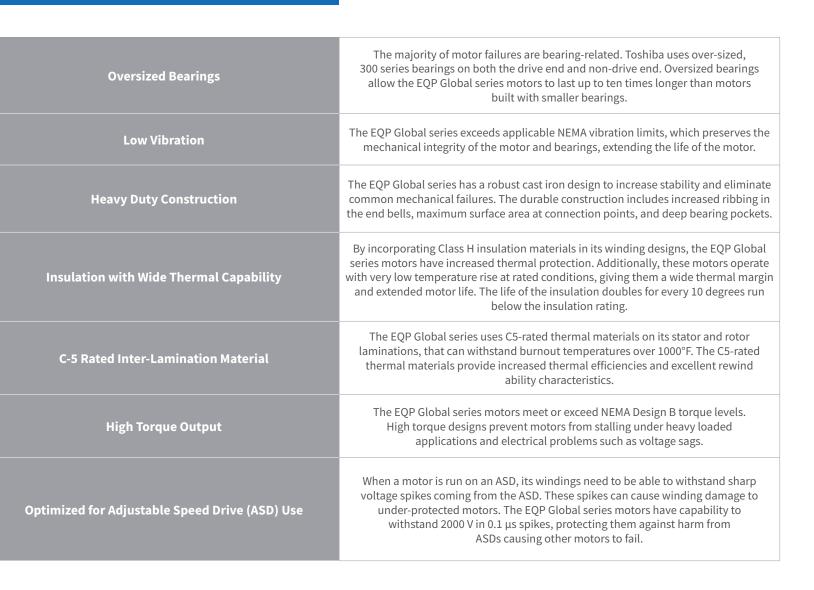
EQP Global[®] Motor Series



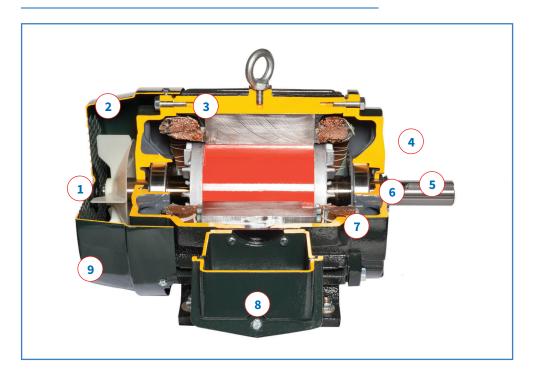
EFFICIENCY, QUALITY & PERFORMANCE - EQP

Toshiba's totally enclosed fan cooled, EQP Global Severe Duty motor series meets the requirements of a wide range of general purpose industrial applications. The robust design and premium construction exceed most industry standards, extend operating life, and aim to minimize maintenance and downtime.





EQP GLOBAL® MOTOR SERIES



1. Fan Cover

- 2. Corrosion-Resistant Non-Sparking Conductive Nylon Plastic Fan
- 3. Class F Insulation System Utilizing Class H Varnish and Magnet Wire
 - 4. Cast Iron Bearing Brackets
- 5. V-Ring Seals to Prevent Contaminants
 - **6.** Heavy Duty Anti-Friction 300 Series Bearings
 - 7. Inner Locking Plate or Bearing Cap
 - 8. Cast Iron Terminal Box
 - **9.** Corrosion-Resistant Severe Duty Paint System

100% QUALITY TEST

Toshiba performs a factory routine test per NEMA MG1 on every single EQP Global motor it manufactures with every such motor going through rigorous quality checks.

PACKAGE DEALS

In addition to manufacturing high quality motors, Toshiba manufactures high quality ASDs and motor starters. If an ASD or starter is purchased as part of a motor/drive or motor/starter package, the warranty period is extended to meet the standard motor warranty of three years.

INDUSTRIES SERVED Agriculture Chemical HVAC Mining & Minerals • Oil & Gas Power Generation Pulp & Paper Water & Wastewater **APPLICATIONS** Compressors Conveyors Fans Material Handling Mixers Pumps

WARRANTY

- EOP Global SD & 840 36 Months
- EQP Global 841 60 Months

GENERAL PURPOSE - EQP GLOBAL® MOTOR SERIES COMPARISON

	EQP GLOBAL° SD	EQP GLOBAL® 840	EQP GLOBAL® 841	IEEE° 841-2021	
GENERAL					
Horsepower	0.5 - 800 HP	0.75 - 500 HP	0.75 - 400 HP	1 - 500 HP	
Speed (60 Hz)		3600, 1800, 12			
Speed (50 Hz)	3000, 1500, 10	00 or 750 RPM	-	3000, 1500, 1000 or 750 RPM	
Voltage (60 Hz)	230/460, 460 or 575 V	460 or 575 V	460 or 575 V	-	
Voltage (50 Hz)	190/380 or 380 V	380 V	-	-	
Frame Size	56 - 5811	143 - 5810	143 - 449	143 - 449	
Enclosure	TEFC	TEFC	TEFC	TEFC or TENV	
Application Design	Severe Duty	Mill & Chemical	Petrochemical	Petrochemical	
ELECTRICAL FEATURES					
Meets or Exceeds NEMA Premium® Efficiency	Yes*	Yes*	Yes*	Yes*	
ASD Duty at 1.0 SF (Catalog Appendix C)	Yes	Yes	Yes	Yes	
Class F Insulation (Class H Magnet Wire & Varnish)	Yes	Yes	Yes	Class F	
Class B Rise at 1.0 SF	Yes	Yes	Yes	Yes	
Lead Cable Rating	125°C	125°C: 143 - 365, 150°C: 404 & Larger	150°C	125°C	
Red Insulation Spray for Moisture and Dirt Protection	No	Yes	Yes	No	
Phase Paper Between All Phases	Yes	Yes	Yes	Yes	
Low Loss Electrical Grade Core Steel (1000°F Burnout)	Yes	Yes	Yes	No	
Dual Voltage 230/460 V	56 - 445	No	No	No	
3 Lead Single Voltage (Multiple Strands Leads 449 Frame & Larger)	No	Yes	Yes	Yes	
6 or 12 Leads for Wye-Delta Starting	213 - 5010	No	No	No	
MECHANICAL FEATURES					
FRAME					
ASTM Grade 25 Gray Cast Iron	Yes	Yes	Yes	Yes	
Dual Mount Frame (Industrial Catalog Appendix B)	Yes	Yes	Yes	-	
F-2 Assembly Modifiable	56 - S/B449, 5010, 5810, 5811	143 - S/B449, 5010, 5810	143 - S/B449	No	
Forged Shouldered Eyebolt With Blind Hole	182 & Larger	182 & Larger	182 & Larger	182 & Larger	
External Ground Provision	404 - S/B449	404 - S/B449	Yes	Yes	
Drains, Lowest Point Of Frame	Yes	254 & Larger	254 & Larger	Yes	
Plugged Drain Holes, Both Bearing Brackets	56 - S447	143 - S447	143 - S447	No	
Stainless Steel T-Drain, Both Bearing Brackets	No	143 - 215	143 - 215	No	
BEARINGS					
300 Series Bearings, DE & ODE	Yes	Yes	Yes	No	
ABMA C3 Clearance	Yes	Yes	Yes	Yes	
L-10 Bearing Life Exceeding 150,000 Hours (Direct Coupled)	Yes	Yes	Yes	50,000	
L-10 Bearing Life Exceeding 40,000 Hours (Belt Drive)	Yes	Yes	Yes	26,280	
L-10 Bearing Life Exceeding 50,000 Hours (Belt Drive)	No	Yes	Yes	26,280	
Locked Bearings	404 & Larger	284 & Larger	Yes	Yes	
Sealed Bearings (Lithium Grease)	56 - 256	143 - 256	No	No	
Regreasable Bearings (Polyurea Grease)	284 & Larger	284 & Larger	Yes	Yes	
Cast Iron Inner Bearing Cap, DE & ODE	404 & Larger	284 & Larger	Yes	Yes	
Extended Grease Pipes, DE	284 & Larger	284 & Larger	284 & Larger	No	
45°C Maximum Bearing Temperature at 1.0 SF (50°C for 2 Pole)	Yes	Yes	Yes	Yes	

Document based on Toshiba's most current design offering, and subject to change without notice. * NEMA Premium* Efficiency is defined $1-500\ HP$.



GENERAL PURPOSE - EQP GLOBAL® MOTOR SERIES COMPARISON

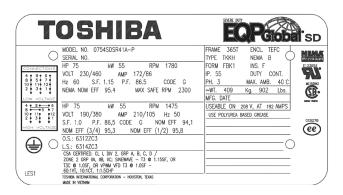
	EQP GLOBAL® SD	EQP GLOBAL® 840	EQP GLOBAL® 841	IEEE [®] 841-2021
GENERAL				
Horsepower	0.5 - 800 HP	0.75 - 500 HP	0.75 - 400 HP	1 - 500 HP
Speed (60 Hz)			200 or 900 RPM	
Speed (50 Hz)	3000, 1500, 10		-	3000, 1500, 1000 or 750 RPM
Voltage (60 Hz)	230/460, 460 or 575 V	460 or 575 V	460 or 575 V	-
Voltage (50 Hz)	190/380 or 380 V	380 V	-	-
Frame Size	56 - 5811	143 - 5810	143 - 449	143 - 449
Enclosure	TEFC	TEFC	TEFC	TEFC or TENV
Application Design	Severe Duty	Mill & Chemical	Petrochemical	Petrochemical
MECHANICAL FEATURES				
IP RATING				
Degree Of Protection	IP54: 56, S/B449 & Larger IP55: 404 - S447 IP65: 143 - 365	IP55: 143 - 286 IP56: 324 & Larger	IP56	IP55
V-Ring Seal, DE	Yes	143 - 286	No	-
V-Ring & Umbrella Seal, DE & ODE	No	324 - 365	No	-
Labyrinth Seals, DE & ODE	No	404 & Larger	Yes	No
RTV Sealant (Brackets, Caps, T-Box Mounting Joints)	No	No	Yes	No
T-BOX				
Gasketed Diagonally Split Cast Iron Terminal Box with NPT Entry	Yes	Yes	Yes	Yes
Rotatable in 90° Increments	Yes	Yes	Yes	Yes
Neoprene Lead Seperator Between Motor Terminal				
Box and Frame with Permanent Marking for Lead Orientation	No	Yes	Yes	Yes
Grounding Provision	Yes	Yes	Yes	Yes
Terminal Box Volume Per IEEE 841-2021	No	Yes	Yes	Yes
Terminal Box Volume Per NEMA Part 4	Yes	Yes	Yes	Yes
FAN				
Non-Sparking, Non-Corrosive Fan	Yes	Yes	Yes	Yes
Bi-directional Rotation	4 - 8 Pole & 2 Pole Up to 300 HP B449	4 - 8 Pole & 2 Pole Up to 300 HP B449	4 - 8 Pole & 2 Pole Up to 300 HP B449	No
Cast Iron Fan Cover	No	Yes	Yes	Yes
NAMEPLATE				
304 SS Nameplate	Yes	Yes	Yes	Yes
50 Hz Data	56 - 405	143 - 365	No	No
Class I, Division 2, Groups A, B, C, D	Yes	Yes	Yes	Yes
MISC. FEATURES				
ASTM Grade 5 Hardware with Rust Proof Coating	Yes	Yes	Yes	Yes
ASTM Grade 25 Gray Cast Iron Brackets	Yes	Yes	Yes	Yes
Shaft Runout 1/2 NEMA Standards	Yes	Yes	Yes	Yes
Lead Terminal Lugs	284 & Larger	213 & Larger	Yes	-
All Machined Internal Surfaces Protected with Rust Inhibitive Coating	No	Yes	Yes	Yes
Paint System Surpassing 96 Hour Salt Spray Test	Yes	Yes	Yes	Yes
TESTING				
Maximum Sound Power Level dBA, No Load	NEMA Part 9	NEMA Part 9	90	90
Motor Vibration Per IEEE 841-2021	No	Yes	Yes	Yes
0.005" Verified Foot Flatness	No	Yes	Yes	Yes
Factory Routine Test Report Supplied with Motor	No	Yes	Yes	Yes
Factory Routine Test Report with No Load Vibration Check	444 & Larger	444 & Larger	Yes	Yes

ASD CAPABILITIES

	Nove	T-CODE	60:1 VT					
Frame	NONE		2:1 CT	T-Code	3:1 CT	T-Code	10:1 CT	T-Code
140	E HD May	T4	5 HP Max.	T4	5 HP Max.	T4	5 HP Max.	T4
180	5 HP Max.							
210	100 HP Max.			T3	100 HP Max.	Т3	100 HP Max.	T3
250		Т3	100 HP Max.					
280								
320								
360								
400								
440	350 HP Max.	T3	350 HP Max.	T3	350 HP Max.	T3	350 HP Max.	ТЗ
500/5000	500 HP Max.	T3	500 HP Max.	T2C	500 HP Max.	T2C	400 HP Max.	T2D
580/5800	800 HP Max.	T3B	800 HP Max.	ТЗВ	800 HP Max.	ТЗВ	600 HP Max.	T2C

- \bullet The constant torque coverage dictates the maximum horsepower.
- Above temperature codes are based on Class I, Division 2, and standard ambient and altitude.
 20:1 CT can be accomodated on motors up to 200 HP, up to 500/5000 frame, 4 & 6 Pole, and non-hazardous area.

NAMEPLATES



T	DSHIBA	EQPGlobal 841
MEETS IEEE 841-2009	MODEL NO. 0754XDSB41A-P SERIAL NO. HP 75 kW 55 RPM 1780 VOLT 460 AMP 86	FRAME 365T ENCL. TEFC TYPE TKIKH NEMA B FORM FBK1 INS. F IP. 56 DUTY CONT.
MARINE DUTY IEEE 45	Hz 60 S.F. 1.15 P.F. 86.5 CODE G NEMA NOM EFF 95.4 MAX SAFE RPM 2300 GURR. MIN EFF 94.7 HP kW RPM VOLT AMP Hz S.F. CODE	PH. 3 MAX. AMB. 40 C ~WT. 429 Kg. 946 Lbs. MFG. DATE USE POLYUREA BASED CREASE
LES1	O.S.: 70BC03J30X (6314C3) L.S.: 60BC03J30X (6312C3) CSA CERRIFIED: CL, I DV 2, GPB A, B, C, D / COME 2 GPP III, B, IC, SINGWAYE - T3 9 1.15SF, OR T3C 9 1.0SF, OR VPWIM VFD T3 9 1.0SF - 60FVI/, 10-CF, 11-SDP - 105884 NITSWIN OKEPOWIDON - HOUSTON, TEXAS MACE IN VERSION	(ee

7	COSHIBA	EGPGlobal 840
	MODEL NO. 0754XSSB41A-P SERIAL NO. HP 75 kW 55 RPM 1780	FRAME 365T ENCL. TEFC TYPE TKKH NEMA B FORM FBK1 INS. F
MARINE DUTY	VOLT 460 AMP 86	IP. 56 DUTY CONT.
IEEE 45	Hz 60 S.F. 1.15 P.F. 86.5 CODE G NEMA NOM EFF 95.4 MAX SAFE RPM 2300	PH. 3 MAX. AMB. 40°C -WT. 429 Kg. 946 Lbs. MFG. DATE
	HP 75 kW 55 RPM 1475	(AE 600)
	VOLT 380 AMP 105 Hz 50	USE POLYUREA BASED GREASE
	S.F. 1.0 P.F. 86,5 CODE G NOM EFF 94,1 NOM EFF (3/4) 95.3 NOM EFF (1/2) 95.8	(ee)
	O.S.: 6312C3 L.S.: 6314C3	
9	CSA CERTIFIED: CL I, DIV 2, GRP A, B, C, D / ZONE 2 GRP IIA, IIB, IIC; SINEWAVE - T3 @ 1.15SF, OR T3C @ 1.0SF, OR VPWM VFD T3 @ 1.0SF -	
LES1	GO:1VT, 10:1CT, 1:1.5CHP TOSHBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS MAGE IN VERNAM	









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