

LOW VOLTAGE MOTORS

EQP Global® SD Top Mount





BUILT FOR SEVERE DUTY APPLICATIONS

The Toshiba EQP Global Top Mount motor series offers a reliable solution for severe duty applications. These totally enclosed fan cooled motors include a top-mounted conduit box that reduces the installation profile and the need to stock multiple motors with different terminal locations. Their rugged design is engineered with high quality materials, providing superior performance for harsh conditions. In general, Toshiba's EQP Global Series motors offer one of the lowest costs of ownership in the industry by maintaining a high level of efficiency.













Application Specific Design	Horizontal or vertical mounting provisions, ingress protection, and corrosion-resistant paint system offered for protection in severe duty environments.	
Ingress Protection	A totally enclosed fan cooled design combined with a v-ring or shaft slinger seals provide IP55 protection, helping prevent ingress of humidity, dust, dirt, and other contaminants present in the environment.	
Low Vibration	A vibration level exceeding NEMA MG1 requirements provides stability and durability by prolonging motor life and helping to reduce downtime.	
Multi Drain Provisions	Multiple drain plug provisions on brackets, frame, and conduit box allow drainage for all available vertical and horizontal mounting positions.	
Inverter Duty Rated	Motor is designed for use with an adjustable speed drive, which can lead to energy savings when motor is run at optimum fan speed. The insulation system meets NEMA MG1 Part 31, providing speed ranges of up to 60:1 Variable Torque, 10:1 Constant Torque in Class I Division 2 environment.	
Dual-Frequency Rated	50/60 Hz design allows the SD Top Mount motor to be a drop-in replacement for motors anywhere in the world. Standard dual rating label plate mounted on motor.	
Severe Duty Applications	V-ring seal on the drive end, severe duty paint system and IP55 enclosure allow for the SD Top Mount motor to be used in a wide variety of applications in industrial environments.	



DESIGNED FOR SUPERIOR QUALITY & OPTIMAL PERFORMANCE

Toshiba's EQP Global motor series rugged design is engineered with advanced materials for high performance and longer life - suitable for severe conditions and offering one of the lowest costs of ownership in the industry.

- Oversized 300 Series Bearings
- Heavy Duty Cast Iron Construction
- 100% Quality Tested
- Insulation with Wide Thermal Capability
- C5-Rated Inter-Lamination Material
- High Torque Output
- Proven Design

AVAILABLE OPTIONS

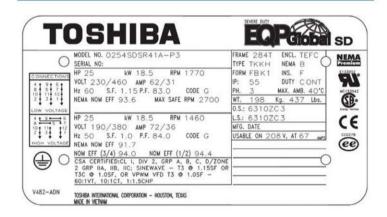
- Space Heaters
- Thermal Protection Devices (Thermostat or Thermistor)
- F1/F2 Mount
- Auxiliary Terminal Box
- Drip Cover
- Rotation of Main Terminal Box
- C-Flange
- Shaft Grounding (Not Available for Div 2 Locations)
- Insulated Bearings

ASD CAPABILITIES

Frame	None	T-Code	60:1 VT						
			2:1 CT	T-Code	3:1 CT	T-Code	10:1 CT	T-Code	
140	5 HP Max.	E HD May	T4	5 HP Max.	T4	5 HP Max.	T4	5 HP Max.	T4
180		14	S HE Max.	14	3 HF Max.	14	3 HF Max.	14	
210	100 HP Max.	T3 100 HP Max.	100 HP Max	Т3	100 HP Max.	T3	100 HP Max.	T3	
250									
280									
320			100 111 1110.	15					
360									
400									
440	350 HP Max.	T3	350 HP Max.	T3	350 HP Max.	T3	350 HP Max.	T3	

^{*} The constant torque coverage dictates the maximum horsepower.

DUAL FREQUENCY 50/60 HZ DESIGN









^{*} 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 447 frame, 4 & 6 Pole, and non-hazardous area.

3THREE YEAR WARRANTY



GENERAL					
Horsepower	1 to 200 HP				
Speed (60 Hz)	3600, 1800, or 1200 RPM				
(50 Hz)	3000, 1500, or 1000 RPM				
Voltage (60 Hz)	230/460, 460 or 575 V				
(50 Hz)	190/380 V (Where Applicable)				
Service Factor	1.15 SF (60 Hz), 1.0 SF (50 Hz)				
Enclosure	Totally Enclosed Fan Cooled				
Frame Size	143T through S447T				
Ingress Protection	IP55				
Insulation	Class F Inverter Duty, Exceeds NEMA MG1 Part 31				
Vibration	Typically 0.10 Inches/Second or Less (Unfiltered)				
Environment	Severe Duty, Suitable for Use in Class I Division 2 Hazardous Locations				
Efficiency	NEMA Premium®				
Hardware	Zinc Dichromate Plated				
CONSTRUCTION					
Frame	Cast Iron				
Paint	External-Corrosion-Resistant Severe Duty System; Painted Internal-Machined Surfaces				
Shaft Seals	V-Ring or Shaft Slinger on DE & ODE				
Lifting	Forged Shouldered Eyebolt				
Mounting	Double Drilled Feet for Multi-Mount Capabilities on Most Frames				
Drains	Multiple Drain Provisions for Horizontal & Vertical Mounting in Frame & Bearing Brackets				
Nameplate	Stainless Steel with Connection Diagram				
BEARINGS					
Туре	Oversized 300 Bearing Series				
Life	150,000 Hours Direct Coupled; 40,000 Hours Belted				
CONDUIT BOX					
Material	Cast Iron with Threaded NPT Opening				
Mounting	Rotatable 90° Increments, F3 Mounting				
Grounding	Grounding Provisions				
Gasket	Neoprene between Conduit Box and Frame with Permanent Marking for Lead Orientation				
INSULATION SYSTEM					
Temperature Rise	Class B Rise by Resistance Method (80°C) @ 1.0 SF				
Material	Low-Loss Electrical Grade Silicon Core Steel with C5 Interlamination Insulation; Phase Paper & Coil Bracing on DE & ODE; Magnet Wire High Voltage Withstand Capability of 2000 V in 0.1 μs. Meets NEMA MG1 part 31				
Class	Class F with Class H Wire and Varnish				
Leads	Permanently Identified Leads; Single Ring Compression Type Lead Lugs (284 Frame & Larger)				

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