

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

MEDIUM VOLTAGE MOTORS

EQP Global[®] 841



**SEVERE
DUTY**

PREMIUM PERFORMANCE IN A SEVERE ENVIRONMENT

The EQP Global 841 motor offers severe duty protection for the toughest applications. Its Class I Division 2 and vacuum pressure impregnated (VPI) Class F insulation design provides additional reliability to withstand these harsh environments.

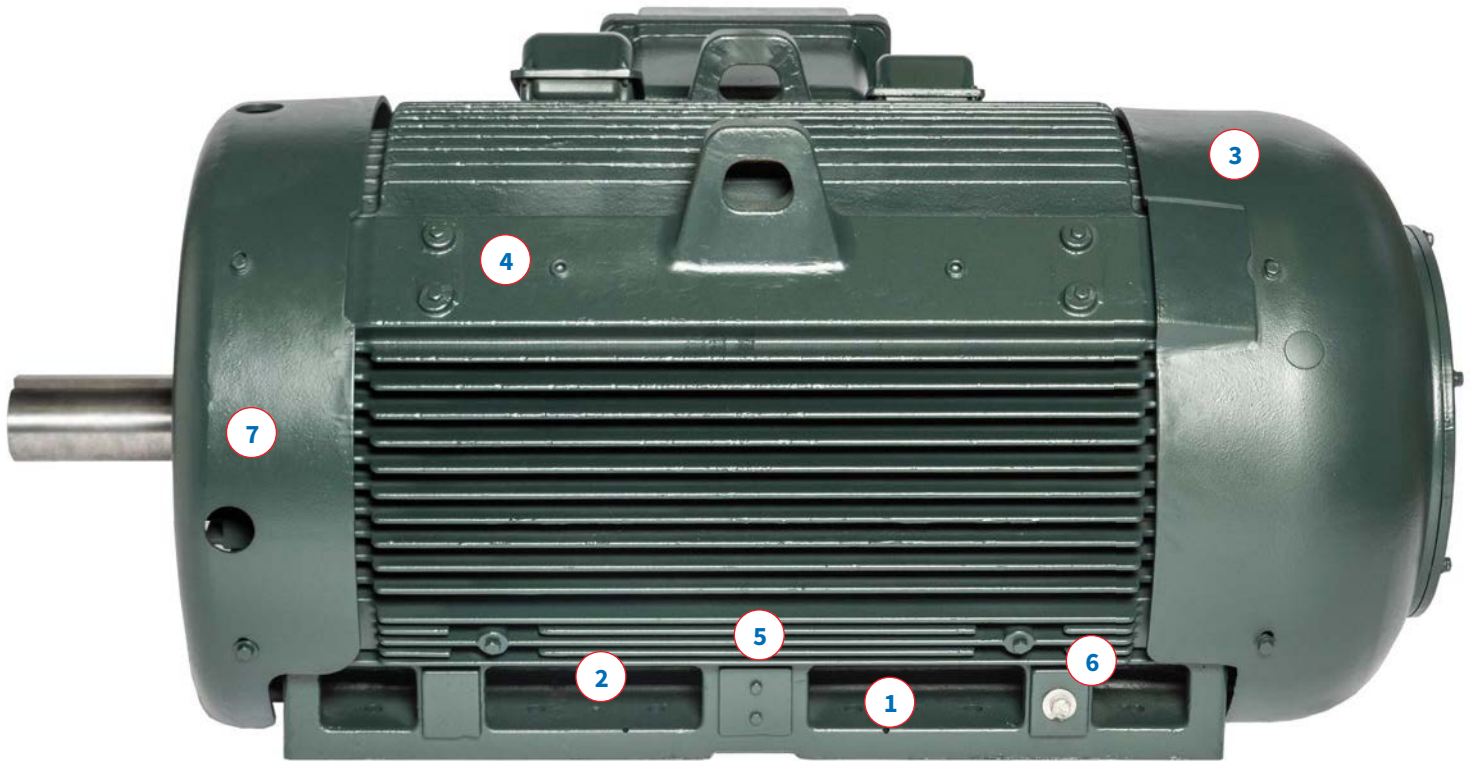


IEEE 841	IEEE 841 nameplated
IP56 Degree of Protection	Non-contacting labyrinth seals on the DE & ODE provide increased moisture and dust protection
Universal Components	Modification provisions enable customization with industry readily available supplied parts
Interchangeable Bearing Brackets	Interchangeable C-Face and D-Flanges permit users to exchange brackets for application flexibility (2, 4 & 6 Pole)
Cast Iron & Anti-Corrosive Design*	Cast iron frame & brackets with cast iron or fabricated steel terminal box(es) and fan cover ensure a high level of mechanical rigidity. Corrosion-resistant hardware, paint system, drain and breather provide high level of durability in severe duty environments
Low Vibration*	Motors are designed with precision unfiltered vibration velocity: 0.08 inches/second (2, 4 & 6 pole) and 0.06 inches/second (8 pole)
Foot Flatness*	0.005" precision foot flatness increases mechanical durability and allows for ease of installation
Thermal Protection	Embedded 100 Ω platinum stator RTDs, two per phase, along with 120 V low watt density space heaters, each terminated in an auxiliary box, help protect the motor's insulation system from excessive heat, condensation, and unsafe operation
Lamination Material	C5 core plate lamination is designed for high temperature capabilities making the motor suitable for removal of windings with burnout oven temperatures of up to 750°F, facilitating motor repair and extending service life
Motor/Drive & Motor/Starter Packages	Engineered packages ensure a highly compatible system with an extended warranty for longer operational coverage

*Meets IEEE841 Standards

UNIVERSAL FRAME DESIGN

Toshiba's universal frame design offers a standard, pre-drilled frame for quick modifications, application flexibility, and field modifiable capability.



GENERAL FEATURES

- 1. Vertical Jacking Bolts:** Bolts are provided to assist with the proper alignment of the motor shaft with the driven equipment.
- 2. Dowel Pin Provisions:** Pilot holes are provided to ensure motor alignment is maintained after the motor is installed.

OPTIONAL FEATURES

- 3. Motor Cover Provisions:** A cover is used to meet a designated noise level when the standard enclosure will not suffice.
- 4. Auxiliary Terminal Box Provisions:** Termination of additional protective or monitoring devices can be provided in a separate conduit box.
- 5. Grounding Pad Provisions:** External copper grounding pads located on the frame base at F1 or F2 location provide proper grounding installation and increased safety.
- 6. Frame Grounding Provisions:** External grounding bolts on the frame foot at F1 or F2 location provide proper grounding installation and increased safety.
- 7. Vibration Transmitter/Bearing RTD Provisions:** Single direction monitoring devices can be provided to measure vibration in either the horizontal or vertical direction on both bearing housings. The same horizontal locations can be used for a three-lead single element bearing thermal protective device.

INDUSTRIES SERVED

- Oil & Gas
- Mining & Minerals
- Chemical
- Pulp & Paper

APPLICATIONS

- Pumps
- Fans
- Compressors
- Conveyors
- Mixers
- Crushers

3 THREE YEAR WARRANTY



HP	Full Load RPM	Voltage	Frame	Current (A)			Full Load Torque (lb.ft)	Torque (%)		Efficiency (%)	Power Factor (%)	Weight (lbs.)
				Full Load	Locked Rotor	kVA Code		Locked Rotor Torque	Break-down Torque	Nominal Full Load	Full Load	
100	3581	2300/4000	S447/9TS	22/13	142/82	G	147	200	220	93.5	91.2	3500
100	1789	2300/4000	S447/9T	25/15	149/86	G	294	155	275	94.0	78.3	3500
100	1189	2300/4000	S447/9T	24/14	158/91	G	443	145	260	94.7	83.2	3500
125	3582	2300/4000	S447/9TS	28/16	182/105	G	183	205	225	94.0	90.9	3500
125	1789	2300/4000	S447/9T	31/18	178/103	G	368	150	270	94.3	78.6	3500
125	1189	2300/4000	S447/9T	30/17	194/112	G	554	145	260	94.8	83.3	3500
125	893	2300/4000	S447/9T	35/20	222/128	H	738	125	240	94.5	70.9	3500
150	3583	2300/4000	S447/9TS	33/19	236/136	G	220	220	245	94.7	90.5	3500
150	1789	2300/4000	S447/9T	38/22	225/130	G	441	160	285	94.7	78.1	3500
150	1189	2300/4000	S447/9T	35/20	223/129	G	665	140	255	94.9	83.4	3500
150	893	2300/4000	S447/9T	42/24	260/150	H	885	125	235	94.6	70.3	3500
200	3583	2300/4000	S447/9TS	43/25	317/183	H	293	225	250	95.0	89.5	3500
200	1789	2300/4000	S447/9T	50/29	298/172	G	588	160	285	95.0	77.6	3500
200	1189	2300/4000	S447/9T	47/27	303/175	G	886	145	260	95.2	82.8	3500
200	893	2300/4000	B447/9T	55/32	350/202	H	1180	130	235	95.0	69.9	4000
250	3584	2300/4000	S447/9TS	55/32	417/241	H	367	240	265	95.0	87.2	3500
250	1789	2300/4000	S447/9T	64/37	365/211	G	736	155	280	95.0	77.5	3500
250	1189	2300/4000	S447/9T	61/35	390/225	G	1108	155	265	95.0	81.9	3500
250	893	2300/4000	B447/9T	73/42	436/252	H	1475	130	235	94.1	67.6	4000
300	3584	2300/4000	B447/9TS	66/38	485/280	H	440	235	255	95.0	88.3	4000
300	1789	2300/4000	S447/9T	76/44	438/253	G	883	160	280	95.0	77.0	3500
300	1188	2300/4000	B447/9T	71/41	424/245	G	1330	140	245	95.0	83.2	4000
300	891	2300/4000	B447/9T	83/48	456/263	G	1770	130	230	95.0	70.3	4000
350	3585	2300/4000	B447/9TS	81/47	620/358	H	513	240	305	95.0	84.1	4000
350	1790	2300/4000	B447/9T	88/51	525/303	G	1027	165	285	95.0	77.1	4000
350	1189	2300/4000	B447/9T	83/48	521/301	G	1551	150	255	95.0	82.4	4000
400	3585	2300/4000	B447/9TS	95/55	708/409	H	586	240	305	95.0	82.5	4000
400	1790	2300/4000	B447/9T	100/58	584/337	G	1174	160	280	95.0	77.2	4000

NOTE: NEMA Premium efficiency not applicable on motors below 250 HP.

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Toshiba International Corporation
Motors & Drives Division
13131 West Little York Road
Houston, Texas 77041 USA
Tel +713-466-0277
US 1-800-231-1412
Rev.05ESSENCE2019



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