

# TORQUE MAX™

## MOTORS

### High torque and rugged construction for tough applications

The most dependable name in industrial motors now brings legendary Reliance design and engineering within the reach of every user needing higher than normal starting or stall torque.

Reliance Torque Max™ motors are available in 5 to 350 horsepower from stock. This severe duty TEFC product utilizes all cast iron construction including cast iron conduit box and fan cover for maximum durability and long life in harsh environments. All frame sizes are suitable for vertical applications without the need for modification so required spares or stock can be reduced. The product's standard mechanical features insure dust and moisture are kept out of the interior of the motor, and the bearings and lubrication system are sized for long life.



**TORQUE  
MAX**

✓ Aggregate/Cement

Food

✓ Mining

✓ Forest/Paper

✓ Petro/Chem

Unit/Baggage  
Handling

HVAC/Industrial Air  
Handling

Environmental/Fluid  
Power

Automotive

Metals

### High Starting Torque and High Stall

- Cast iron frame, end shields, conduit box and fan cover
- Conduit box—F1 location, gasketed, diagonally split, NPT threaded lead outlet, rotatable in 90° increments
- PLS open bearing lubrication system assures effective re-lubrication
- V-ring slinger on both ends for bearing protection
- High-strength carbon steel shaft
- Stainless steel nameplate
- T-drain located on drive end
- All 405T frames and larger have mechanical labyrinth seals on drive end
- All frame sizes are suitable for vertical applications without the need for modification
- All 405T frames and larger have roller bearings on drive end
- 75 HP, 360 frame size and below are NEMA Design C
- 75 HP, 405T frame size and larger are NEMA Design A
- Motor insulation rated 1600 volts per NEMA MG1 part 31.40.4.2
- Meets or exceeds EPA efficiency levels
- CE, CSA, IEEE45 nameplate certifications
- Warranty—36 months from date of manufacture/24 months from date of installation

### Electrical Characteristics

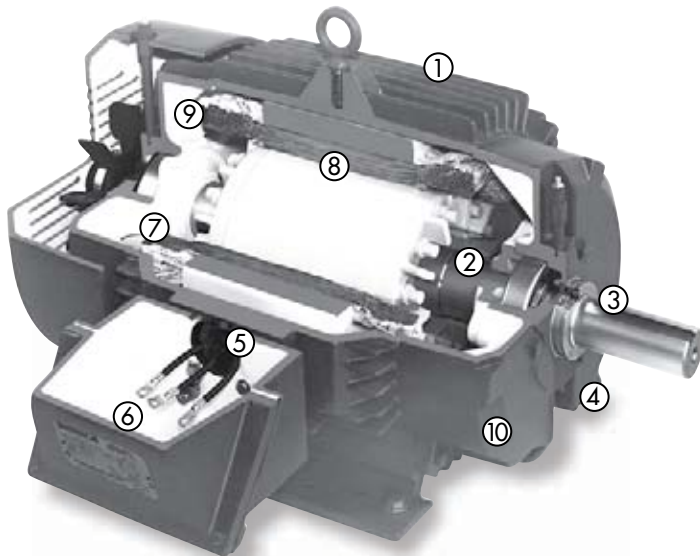
- 5 - 350 HP
- 3 phase, 60 Hz
- 40° C ambient
- 1.15 service factor
- Continuous duty cycle
- Class F insulation
- Class B temperature rise

## Foot Mounted 5-350 HP

HP	Synch RPM	Voltage	Frame	Enclosure	Product Efficiency		Model Number	"C" Dim.	Nom. Eff.	Approx. Wt. (lb)
5	1800	230/460	184T	TEFC	EPAct	◆	P18G3425	15.62	87.5	120
7.5	1800	230/460	213T	TEFC	EPAct	◆	P21G3386	19.31	89.5	170
10	1800	230/460	215T	TEFC	EPAct	◆	P21G3387	19.31	89.5	185
15	1800	230/460	254T	TEFC	EPAct	◆	P25G3397	24.56	91	280
20	1800	230/460	256T	TEFC	EPAct	◆	P25G3398	24.56	91	315
25	1800	230/460	284T	TEFC	EPAct	◆	P28G3402	27.44	92.4	380
30	1800	230/460	286T	TEFC	EPAct	◆	P28G3403	27.44	92.4	415
40	1800	230/460	324T	TEFC	EPAct	◆	P32G3409	30.44	93	490
50	1800	230/460	326T	TEFC	EPAct	◆	P32G3410	30.44	93	560
60	1800	230/460	364T	TEFC	EPAct	◆	P36G3357	33.44	93.6	800
75	1800	230/460	365T	TEFC	EPAct	◆	P36G3358	33.44	94.1	840
	1200	460	405T	TEFC	EPAct	◆	P40G582	38.31	93.6	1160
100	1800	460	405T	TEFC	EPAct	◆	P40G583	38.31	94.5	1160
	1200	460	444T	TEFC	EPAct	◆	P44G1543	44.62	94.1	1540
125	1800	460	444T	TEFC	EPAct	◆	P44G1545	44.62	94.5	1540
	1200	460	445T	TEFC	EPAct	◆	P44G1544	44.62	94.1	1730
150	1800	460	445T	TEFC	EPAct	◆	P44G1546	44.62	95	1730
	1200	460	447T	TEFC	EPAct	◆	P44G1547	48.4	95	1730
200	1800	460	447T	TEFC	EPAct	◆	P44G1550	48.4	95	2070
	1200	460	447T	TEFC	EPAct	◆	P44G1548	48.4	95	2030
250	1800	460	447T	TEFC	EPAct	◆	P44G1551	48.4	95	2030
	1200	460	449T	TEFC	EPAct	◆	P44G1549	53.4	95	2410
300	1800	460	449T	TEFC	EPAct	◆	P44G1552	53.4	95.4	2410
350	1800	460	449T	TEFC	EPAct	◆	P44G1553	53.4	96.2	2410

◆ -Inverter Duty

Cast Iron Frame



- ① All cast iron construction including fan cover and conduit box for durability in harsh applications
- ② PLS lubrication, plus, either oversized ball bearings or roller bearings for long bearing life
- ③ Mechanical labyrinth seals or V-ring slingers keep out dust and water
- ④ Automatic grease relief with spring loaded fitting insures the grease will not go into the interior of the motor
- ⑤ Neoprene lead separator isolates the motor interior from the conduit box and keeps leads from rubbing together
- ⑥ Lead Lugs for easy wiring
- ⑦ Fits between brackets and shell are filled with RTV sealant to keep dust and water out
- ⑧ Stator and rotor have an epoxy coating which resists contamination
- ⑨ Bearings pressed on shouldered shaft for vertical mounting without any modifications
- ⑩ Stainless steel T-drains allow condensation to get out

[www.baldor.com](http://www.baldor.com) [www.ptplace.com](http://www.ptplace.com) [www.dodge-pt.com](http://www.dodge-pt.com) [www.reliance.com](http://www.reliance.com)



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