



MBZ-3.75

SPECIFICATIONS - ENGLISH (IN-OZ and FT-LB)

OUTSIDE DIAMETER:	3.75 inches	3.75 inches
MAX. TORQUE AT ZERO RPM:	130 in-oz	0.68 ft-lb
MAX. TORQUE AT MAX RPM:	231 in-oz	1.20 ft-lb
MAX. RPM:	12,000 rev/min	12,000 rev/min
MIN. TORQUE AT MAX RPM*:	41 in-oz	0.21 ft-lb
MAX. POWER @ MAX. RPM FOR 15 SEC.:	2.75 hp	2.75 hp
MAX. CONTINUOUS POWER @ MAX. RPM:	1.36 hp	1.36 hp

*This torque is due to air drag and bearing friction; current and cogging at zero level.

MAX. COIL CURRENT (Amps)	RESISTANCE @100±25°C (ohms)	MAX. VOLTAGE (Vdc)	+24Vdc SUPPLY CURRENT (Amps)	-24Vdc SUPPLY CURRENT (Amps)	ROTOR INERTIA (in oz s ²)	BRAKE WEIGHT (lbs.)
3.5	3.8	24	4.5	3.5	0.04	5.0

NOTES:

- A 1.60 DIAMETER HOLE IS REQUIRED FOR VENTILATION PURPOSES. IF THE BRAKE IS MOUNTED ON A FLAT SURFACE, IT SHOULD BE SPACED .25 IN FROM THE SURFACE.
- PART # B337-1070 IS AN OPTIONAL ITEM (3 PCS. REQ.) AND MUST BE ORDERED SEPARATELY.
- .375 BORE, ABEC 5, FAIRER SOKID OR EQUIVALENT.
- DIMENSIONS SHOWN ARE FOR THE STOCK SHAFT WITH ONE FLAT ON EACH END. CUSTOMER MAY REQUEST SHAFT WITH KEYWAYS. SHAFT MATERIAL: 17-4 STAINLESS, RC 38, 175,000 PSI.

THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF MBS MAGNETIC BRAKE SYSTEMS. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. NO OTHER USES ARE PERMITTED WITHOUT THE WRITTEN CONSENT OF MBS MAGNETIC BRAKE SYSTEMS.

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BRAKE - MAGNETIC,
 MODEL MBZ-3.75

SH 1 OF 1
 337-0300



MBZ-3.75

SPECIFICATIONS - SI

- OUTSIDE DIAMETER: **95.25 mm**
- MAX. TORQUE AT ZERO RPM: **0.92 N·m**
- MAX. TORQUE AT MAX RPM: **1.63 N·m**
- MAX. RPM: **1,256.64 rad/sec**
- MIN. TORQUE AT MAX RPM*: **0.29 N·m**
- MAX. POWER @ MAX. RPM FOR 15 SEC.: **2,047 watts**
- MAX. CONTINUOUS POWER @ MAX. RPM: **1,013 watts**

*This torque is due to air drag and bearing friction; current and cogging at zero level.

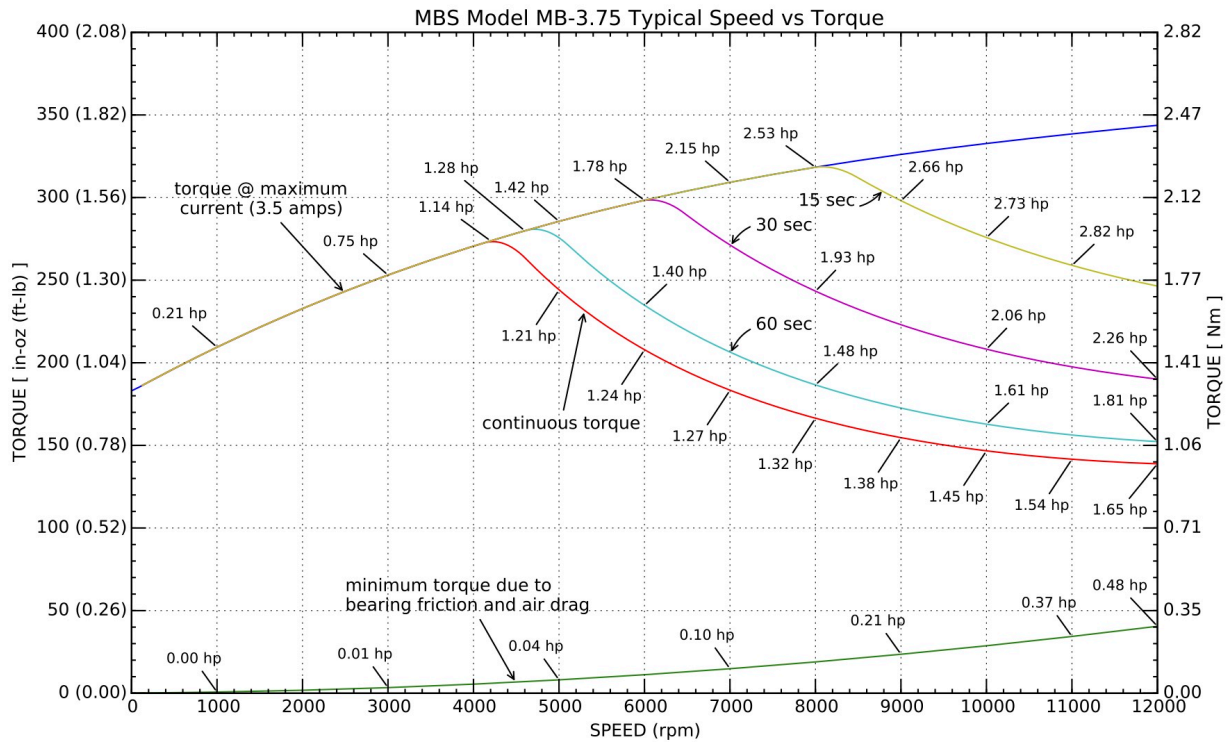
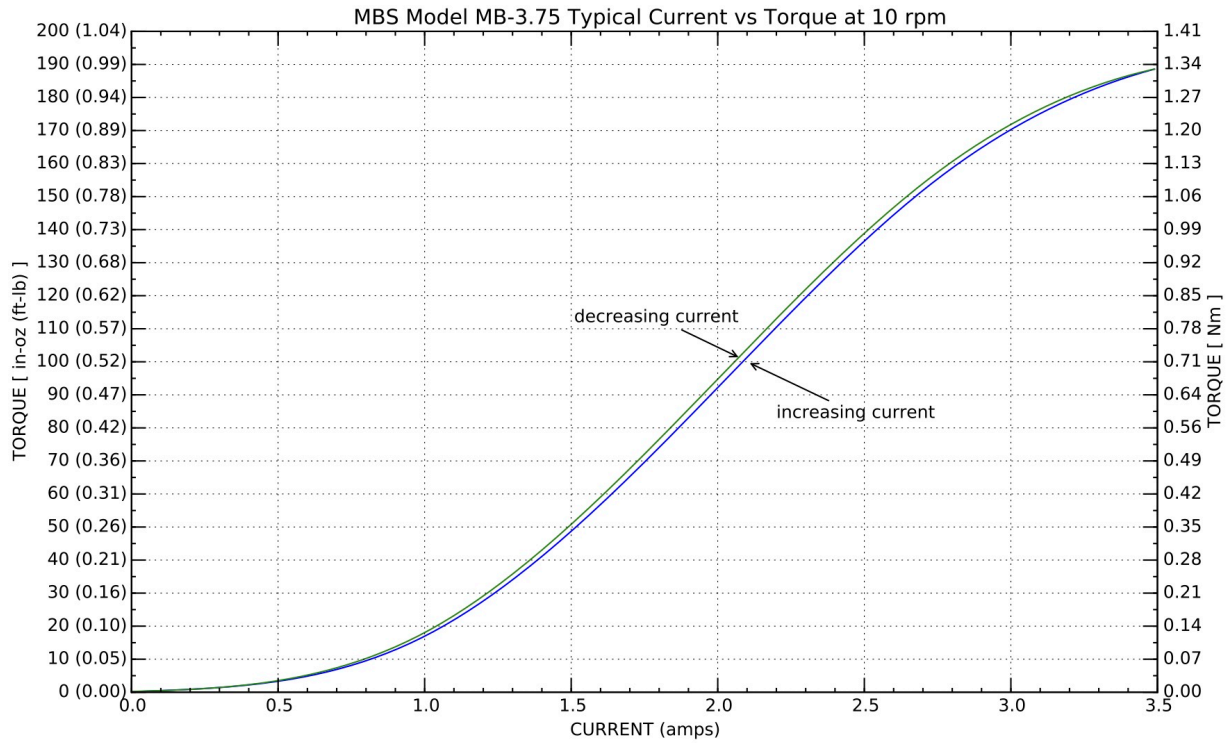
MAX. COIL CURRENT (Amps)	RESISTANCE @100±25°C (ohms)	MAX. VOLTAGE (Vdc)	+24Vdc SUPPLY CURRENT (Amps)	-24Vdc SUPPLY CURRENT (Amps)	ROTOR INERTIA (kg cm ²)	BRAKE WEIGHT (kg)
3.5	3.8	24	0.5	3.5	2.9	2.27

Technical drawing details include:
 - Front view: Ø95.25, Ø40.64 (SEE NOTE 2), PRIMARY MOUNTING HOLES 8H-.52 X 12.70 DP ON Ø50.80 B.C. EQUALLY SPACED - 3 PLACES.
 - Side view: 56.74, 28.96 (SEE NOTE 5), 2.46, 25.40, Ø22.225/22.212, BALL BEARINGS (SEE NOTE 4), 1.117, 35.592, 55.91, WIRE CONNECTIONS, 20.65 - 2 PL., 0.99 - 2 PL., 25.40 (SEE NOTE 5), 6.22.
 - Alternate view: 73.99, 17.47, 30.22, ALTERNATE MOUNTS PART # B337-1070 (SEE NOTE 3), #6-32 X 9.65 DP ON Ø101.60 B.C. EQUALLY SPACED - 3 PLACES.

NOTES:
 1. UNITS ARE IN MILLIMETERS.
 2. A 40.64 DIAMETER HOLE IS REQUIRED FOR VENTILATION PURPOSES.
 3. IF THE BRAKE IS MOUNTED ON A FLAT SURFACE, IT SHOULD BE SPACED 6.30MM FROM THE SURFACE.
 4. PART # B337-1070 IS AN OPTIONAL ITEM (3 PCS. REQ.) AND MUST BE ORDERED SEPARATELY.
 5. 9.525 BORE, ABEC 5, TAPE RACK DR EQUIVALENT.
 6. DIMENSIONS SHOWN ARE FOR THE STOCK SHAFT WITH ONE FLAT ON EACH END. CUSTOMER MAY REQUEST SHAFT WITH KEYWAYS. SHAFT MATERIAL: 17-4 STAINLESS, RC 38, 1,206.6 MPa.

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 4725 CALLE GUEZTAL, CARMELITO, CA 95022
 MBS MAGNETIC BRAKE SYSTEMS
 BRAKE - MAGNETIC, MODEL MBZ-3.75 (METRIC) SH-1 DF 1 337-0300

PERFORMANCE CURVES - STANDALONE MBS BRAKE



June 2018 - Magnetic Brake Systems - www.magbrakesystems.com - tel: +1 805-383-6903

PERFORMANCE CURVES - MBS BRAKE WITH AN MBS CONTROLLER

