

The EYQM series is a precision permanent magnet DC, brush commutated motor that can be mounted to a variety of Merkle-Korff gear reducer options. The EYQM series motor can be fitted with available encoders or brakes.

**SPECIFICATIONS**

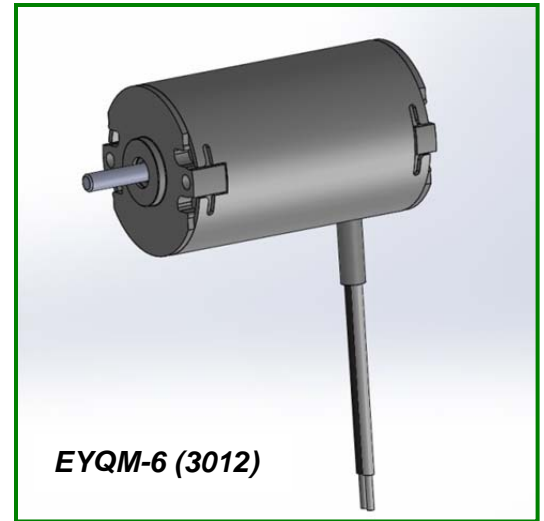
**Input Voltage:** 6 to 36 Vdc  
**Output Power:** 5 to 11 Watts  
**Rotation:** Bi-Directional  
**Maximum Speed:** 10,000 RPM  
**Temperature Range:** -30 °C to +80 °C

**Construction Features**

**Poles:** 2  
**Bearings:** Sintered Bronze  
**Brushes:** Long life copper or silver graphite  
**Insulation Class:** F  
**Armature:** Dynamically balanced for low vibration  
**Shaft Diameters:** 0.125"  
**Termination:** #22 AWG Lead Wires  
**Regulatory Approvals:** RoHs

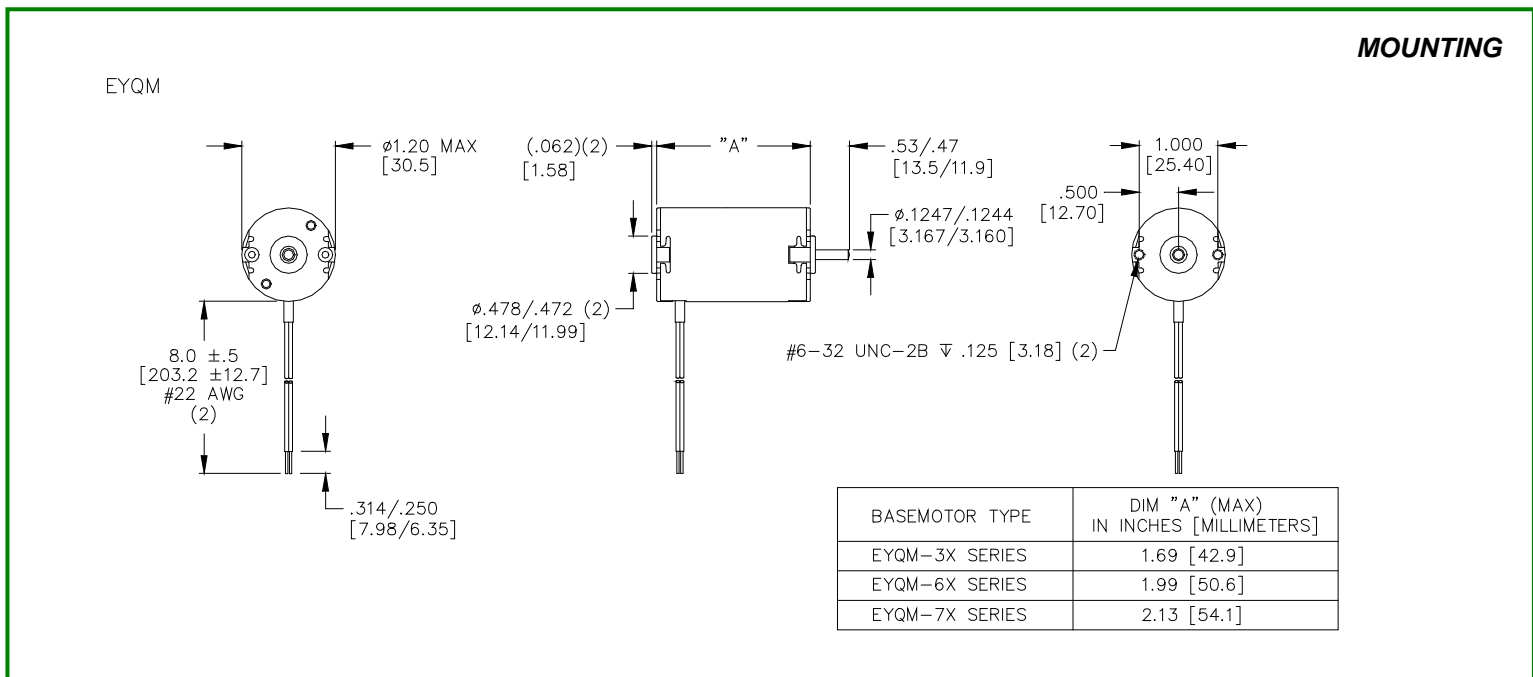
**TYPICAL APPLICATIONS**

- Analytical Laboratory Equipment
- Food Service Equipment
- Actuators
- Pumps
- Vending
- Material Handling
- Packaging equipment
- Currency Counters

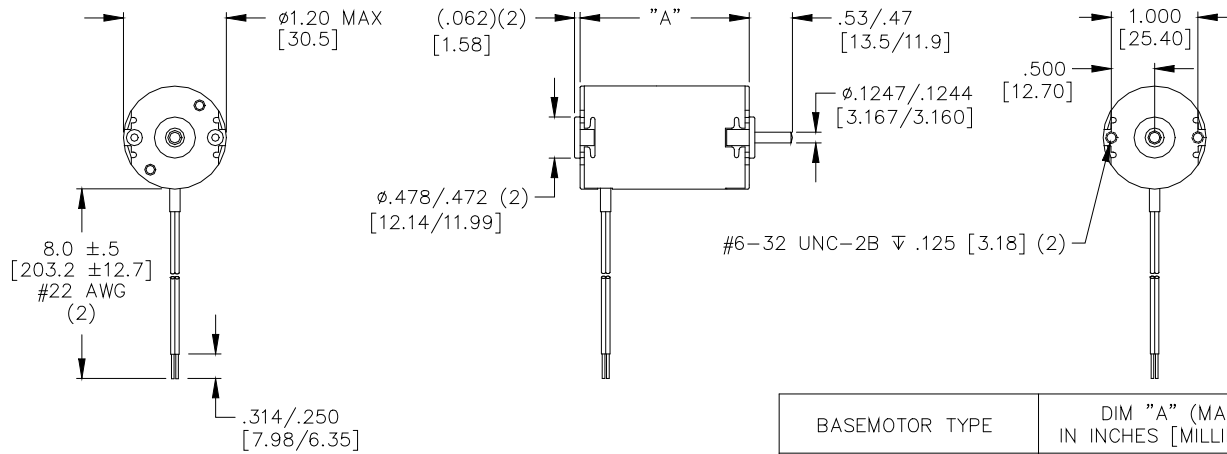


**OPTIONAL FEATURES**

- Customized output shafts including dual output
- Various lead lengths, terminals and connectors
- EMI Filtering: Internal Suppression
- Magnetic Encoder: 2 to 12 PPR Resolution
- Optical or Capacitive: Up to 2048 PPR Resolution



EYQM



BASEMOTOR TYPE	DIM "A" (MAX) IN INCHES [MILLIMETERS]
EYQM-3X SERIES	1.69 [42.9]
EYQM-6X SERIES	1.99 [50.6]
EYQM-7X SERIES	2.13 [54.1]

## EYQM (3000) SERIES MOTOR PERFORMANCE

Parameter	Symbol	Units	EYQM-3	EYQM-3	EYQM-6	EYQM-6	EYQM-7	EYQM-7
Voltage	E	Volts	12	24	12	24	12	24
Continuous Torque	$T_c$	oz.in	1.3	1.3	1.6	1.6	2.0	2.0
Continuous Current	I	Amps	0.88	0.44	1.37	0.53	1.36	0.68
Continuous Speed	$n_c$	RPM	5800	6000	6600	6900	7000	7400
Stall Torque	$T_s$	oz.in	4.2	3.6	7.0	7.0	10	10
No Load Speed	$N_0$	RPM	8150	8150	8400	8400	8700	8800
Output Power	P	Watts	5.5	5.5	7.7	7.7	10.6	10.6
No Load Current	$I_0$	Amps	0.19	0.09	0.21	0.10	0.24	0.12
Maximum Winding Temperature	$\Theta_{max}$	$^{\circ}$ C	155	155	155	155	155	155
Torque Constant	$K_t$	oz.in/Amp	1.82	3.69	1.83	3.67	1.78	3.57
Back-EMF Constant	$K_e$	V/kRPM	1.34	2.73	1.35	2.72	1.31	2.64
Length	L	in	1.69	1.69	1.99	1.99	2.13	2.13