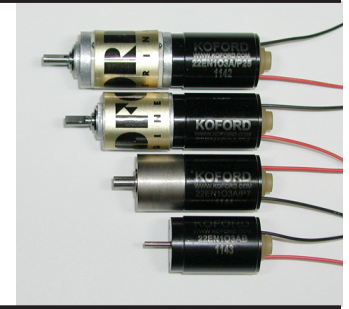


•Maximum rpm 30,000

•Maximum Stall torque 3.84 oz-in.

Neo rare earth magnets standard for high performance. Electrographite brushes for long motor life at high speeds. Available with EMI filters. Compact and cost efficient design makes it suitable for a variety of applications such as medical/dental handpieces, intermittent duty pumps, lab mixers stirrers, and battery powered tools. ABEC 3 ball bearing and M2 high speed steel shaft heat treated to Rc60-63 and Nickel/Phosphorous alloy plated and ground for maximum corrosion resistance. Housing black zinc plated. Available with all steel gear or plastic/steel gear planetary gearboxes in a wide variety of ratios.



Motor Data

Winding		099	102	103
Type		special	standard	standard
Nominal supply voltage	volts	12	30	30
no load speed	rpm	15,000	30,000	30,000
Stall torque	oz-in	2.0	4.9	6.0
Continuous torque	heat sink/no h.s. oz-in	.8/.62	1.0/.41	1.0/.54
Motor constant Km	oz-in/√w	.46	.46	.52
Resistance	ohm	5.3	8.2	6.5
Peak output	watts	1.59	6.35	8.00
No load current max rpm	amp±50%	.063	.061	.061
No load current gradient	amp/krpm	.0008	.0006	.0006
Velocity constant	rpm/volt±12%	1,250	1,000	1,000
Torque constant Kt	oz-in/amp	1.05	1.34	1.34
Stall current	amps	2.26	3.65	7.19
Maximum efficiency	%	73	80	82
Armature inductance	mH	.53	.66	.60
Mechanical time constant	ms	18	18	14
Rotor inertia	10 ⁻⁴ oz-in-sec ²	.28	.28	.29
Thermal res. housing to ambient	°C/W	19	19	19
Thermal res. armature to housing	°C/W	3.5	3.5	3.5
Bearing rating dynamic	oz	464	464	464
Bearing axial (static)	oz	176	176	176

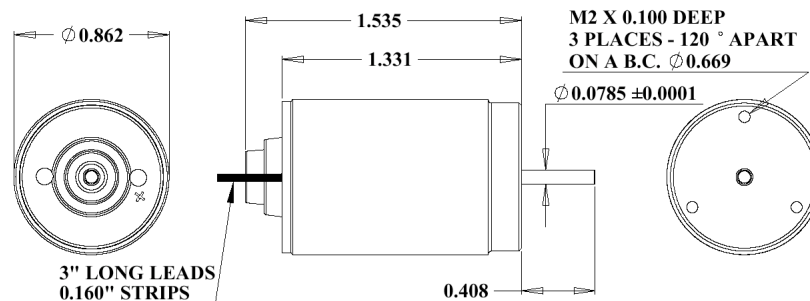
Weight 1.6 oz

Maximum armature temperature 140°C

Maximum case temperature 70°C

Values based on

winding and magnet temp.
of 20°C



Ordering Information: phone 330-315-3061 • fax 937-695-0237 • www.koford.com • mail@koford.com

Example: Part Number 22EN 099 A / A7

Motor dia. and type _____
winding number _____

Gearbox A4=3.7:1, A7=7:1 (above), A25=25.01:1

A=no emi filter B=internal filter cap