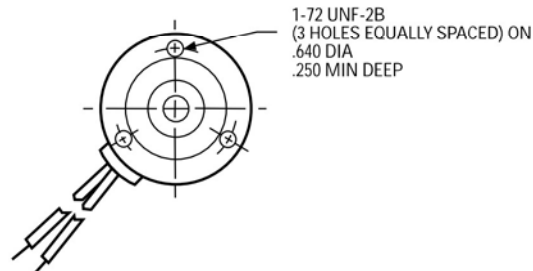
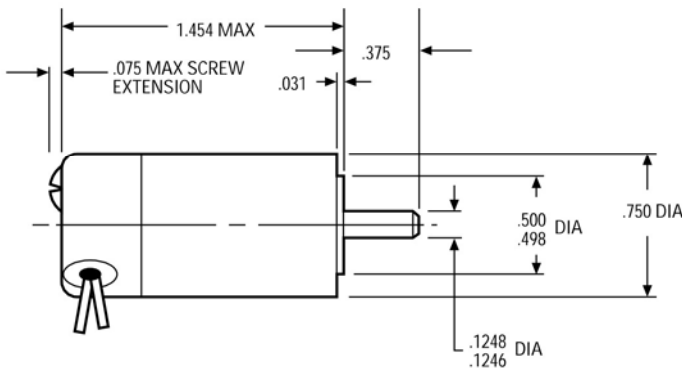


Dimensions



ROTATION (VIEWED FROM SHAFT END)
 CCW - POSITIVE VOLTAGE TO RED (+), NEGATIVE VOLTAGE TO BLACK (-)
 CW - REVERSE POLARITY

NOTE: Consult factory prior to preparing spec control prints. Dimensions are for reference only

general design specification

power rating: .0025 hp (1.9W)

voltage: 6 to 50 VDC

weight: 1.75 ounces

armature: Dynamically balanced

inertia: 2.55×10^{-5} oz. in. sec.²

electrical time constant: 0.5 milliseconds max

mechanical time constant: 40.0 milliseconds max

typical no load torque: 0.2 oz. in.

protection: Varnish impregnated

shaft: Precision-ground, through-hardened (RC 40-50) 420 stainless steel per ASTM A582. Options: length, smaller diameter, flats, pinions, gears, holes (through or tapped), threaded ends and tapers. Type of steel used may change depending upon variation selected

magnets: Alnico V

bearings: Double shielded, life-lubricated for -55°C to $+85^{\circ}\text{C}$ operation. Special lubricants available for temperature extremes

cables/leads: 8" #26 AWG leads per MIL-W-16878/4

housing: Aluminum

marking: Per MIL-STD-130

life: 1,000 hours continuous duty for 27 VDC units

winding temperature rise: 17°C per watt w/8.00" x 8.00" x .25" aluminum heat sink

winding insulation rating: 130°C (higher temperature windings available)

options available:

- Gear train (see A-1230 for details)
- RFI filters to meet MIL-I-6181, MIL-I-26600 or MIL-STD-461
- Servo mounting
- Pinion shaft

A-1200

Standard Part Numbers and Data

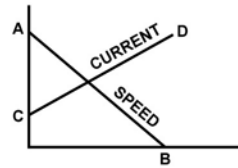
VOLTAGE (VDC)	SPEED no load (rpm)	TORQUE		CURRENT			CONSTANTS		STANDARD PART NUMBERS*
		max rated (oz. in.)	** theoretical stall (oz. in.)	max no load (amps)	max rated load (amps)	** nominal stall (amps)	K_t (oz. in./amp)	R (ohms)	
6	14,500-17,500	.10	1.6	.58	1.00	4.17	.43	1.44	136A208-17
6	12,000-14,000	.28	1.2	.48	1.00	2.64	.54	2.27	136A208-16
6	9,000-10,500	.28	.9	.38	.82	1.62	.70	3.70	136A208-15
12	13,000-15,500	.22	1.6	.27	.53	1.86	.96	6.46	136A208-14
12	9,500-11,000	.37	1.2	.19	.50	1.05	1.36	11.40	136A208-13
12	8,500-10,000	.28	.9	.17	.38	.75	1.51	16.00	136A208-12
12	6,500-8,000	.22	.7	.14	.28	.49	1.84	24.50	136A208-1
27	13,000-16,000	.22	1.4	.12	.24	.74	2.16	36.30	136A208-2
27	10,000-12,500	.31	1.1	.09	.22	.47	2.70	57.10	136A208-3
27	9,000-10,500	.24	.8	.08	.16	.31	3.25	86.40	136A208-4
27	7,000-8,500	.24	.6	.07	.14	.21	3.89	130.00	136A208-5
50	12,500-15,000	.15	.7	.06	.10	.24	4.10	219.00	136A208-7
50	11,500-13,500	.25	1.0	.05	.12	.26	4.65	196.00	136A208-6

**Because of brush drop and field distortion, current and torque indicated will not always be attainable

*When You Order

Units shown above are standard and may be ordered by part number. Remember to include armature winding dash number, EXAMPLE: 136A208-2

How To Draw Speed Torque Curve



- A no load speed (nominal) (rpm)
- B stall torque (oz. in.)
- C no load current (amps)
- D stall current (amps)

Typical Performance

Part No.: 136A208-2

Voltage: 27 VDC

