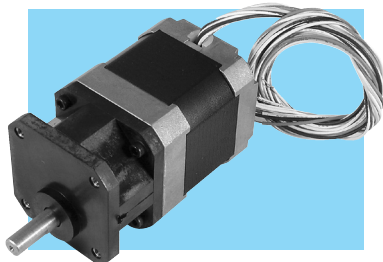
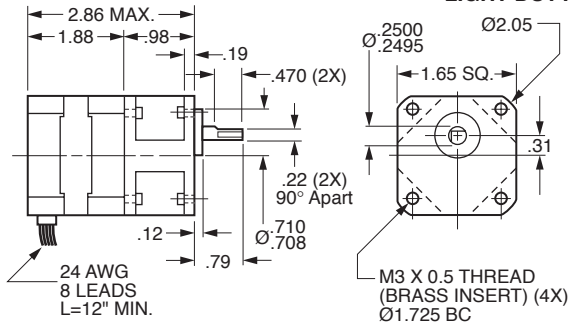




# Offset Stepper Gearmotors – NEMA Size 17

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 1.8° NOMINAL MOTOR STEP ANGLE
- 5:1, 10:1, 18:1 GEAR RATIOS
- LIGHT-DUTY



**MATERIAL:**

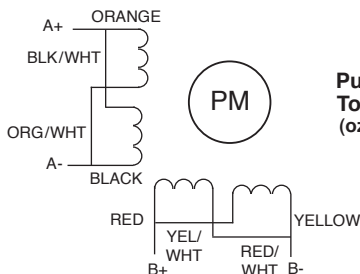
- Gearhead Housing** – Ryton® (Engineering Resin), Black
- Mounting Flanges** – Ryton® (Engineering Resin), Black
- Output Shaft** – Stainless Steel
- Gears** – Stainless Steel
- Bearings** – Composite Bushings

**SPECIFICATIONS:**

- Max. Input Speed:** 1000 rpm
- Shaft Loading:** Radial – 4 lb.  
Axial – 4 lb.
- Shaft Play Max.:** Radial – .002  
Axial – .010
- Gearhead Max. Cont. Torque:** 160 oz. in.
- Phase Resistance:** 3.3 ohms ± 10% @ 25°C
- Winding Inductance:** 3 mH ± 20%
- Rated Current:** 1.25 Amp. / Phase
- Minimum Efficiency:** 80%
- Maximum Backlash:** 45 arc min.
- Operating Temperature:** -40°F to +255°F
- Weight:** 13 oz.

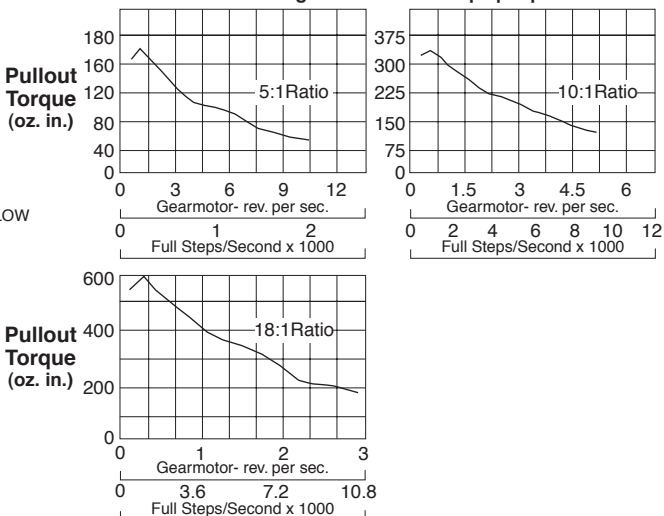
Catalog Number	Gear Ratio	Step Angle per step	Torque Rating oz. in.		Maximum Inertia oz. in. sec. <sup>2</sup>
			Cont.	Holding	
S9117C-S18GM005	5:1	1.8°	222	444	2.67 x 10 <sup>-5</sup>
S9117C-S18GM010	10:1		see curve	799	1.82 x 10 <sup>-6</sup>
S9117C-S18GM018	18:1				2.97 x 10 <sup>-4</sup>

**SCHEMATIC**



**SPEED vs. TORQUE CHARACTERISTICS**

Drive Setting 35V DC – 1.25 Amps per phase



**Bipolar Chopper Drive  
Switching Sequence for CW  
Rotation Facing Mounting End**

Step	A+	A-	B+	B-
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-