

Features and Benefits

- Cost effective design
- High resistance to demagnetization
- Operation from -40°C to 125°C
- Tough environmental endurance
- Very resistant to chipping
- 1/4" square shelf option
- · Multiple round shelf options



Molded Target Magnet

Physical Properties of Magnetic Material

Table 1.1

Characteristic	Value	Units			
Tensile Strength	6500	PSI			
Flexural Strength	9750	PSI			
Flexural Modulus	1.3 X 10 ⁶	PSI			
Continuous Service Temperature	100	°C			

Magnetic Properties

Table 1.2

Characteristic	Magnalox 7540	Units
Remanence (B _r)	2200	Gauss
Coercive Force (H _c)	2000	Oersted
Energy Product (BH _{MAX})	1.2	MGOe
Intrinsic Coercive Force (H _{ci})	3000	Oersted
Reversible Temperature Coefficient	-0.20	/°C
Specific Gravity	3.56	





Note: (N)orth/(S)outh markings are for illustration purposes and do not appear on the actual product.

Available Pole Counts

4, 6, 8, 10, 12, 16, 24

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Target Rotor Physical Outline - Molded (Mounting Style A)

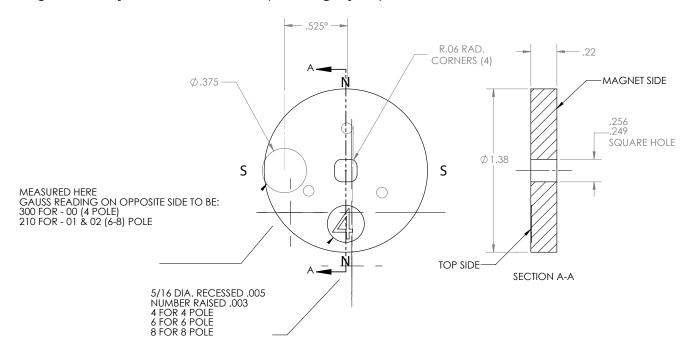


Table 2.1

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Bore Size (.inch)	Motor Shaft OD Size (nominal)	NEMA Guide Shaft Tolerance	Magnet Bore MIN. (inch)	Magnet Bore MAX. (inch)		
276	7 mm (.2758")	+0.0000"/-0.0005"	.2747	.2777		
313	5/16 in (.3125")		.3115	.3145		
315	8 mm (.3150")		.3140	.3170		
375	3/8 in (.3750")		.3740	.3770		

Other bore sizes available upon request. Contact sales@phoenixamerica.com.

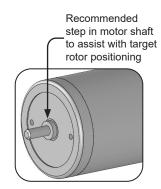
Target Rotor Mounting Guidelines - Molded (Mounting Style A) For Slip Fit Application

- Proper alignment of the target rotor is critical for optimal performance.
- A machined step on the motor shaft provides a quick and repeatable method for positioning the target rotor. Spacers or other fixturing should be used to properly position the rotor if no mechanical locating features are on the shaft.
- Various adhesives can be used to bond the target rotor to the motor shaft. Shaft alloys, operating environment, and shaft speed and
 acceleration should be taken into consideration when selecting an appropriate bonding agent. Loctite threadlockers and retaining
 compounds have proved effective in bonding the target rotor to the motor shaft. Loctite 263 and 2760 threadlockers and Loctite 638 and
 680 retaining compounds are good candidates. These materials have been effective in past experience; testing under actual operating
 conditions should be used to qualify any bonding material.
- For best results, the motor shaft should be clean and free of any oils, lubricants, or solvents.
- Apply adhesive around the leading edge of the shaft and inside the hole in the rotor. Use a rotating motion when assembling the magnet to the shaft to insure good adhesive coverage.
- The use of primers and activators can be used to improve bond strength and cure rate.
- For non-critical applications or for fast bonding for evaluation, a cyanoacrylate adhesive (super glue) can be used. Loctite 401 and 410 have proven effective for quick bonding applications.

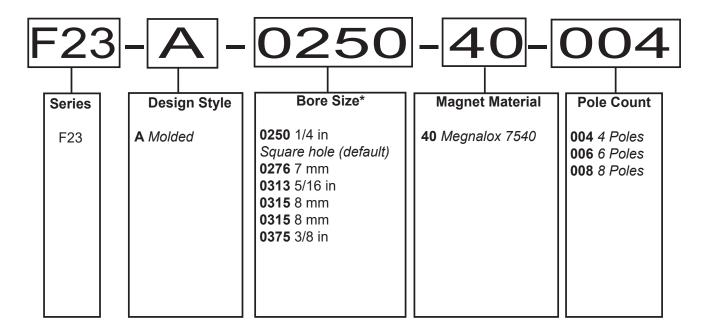
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Part Number Description



Example: F23-A-0250-40-004

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