

Electromagnetic Friction Clutches & Brakes

Shaft Mounted Clutches – Type BSL



BSL SERIES POWER-ON CLUTCHES

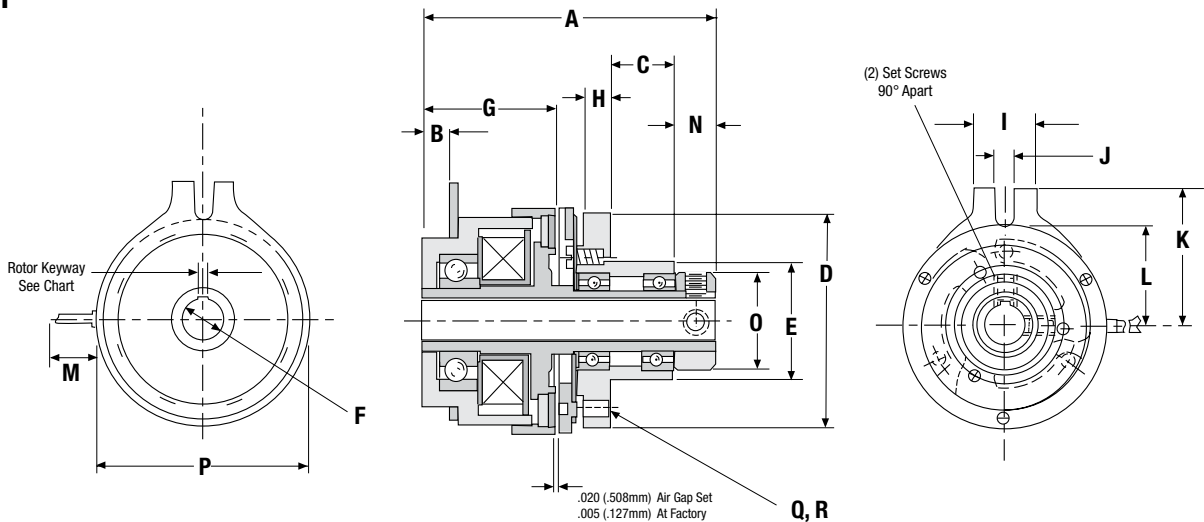
Shaft Mounted Clutches – Type BSL

Inertia Dynamics features four sizes of ball bearing clutches. All sizes have ball bearing armature and field assemblies for heavy duty applications, allowing higher shaft speeds and side loads to be achieved. All BSL clutches are shaft mounted for easy installation and operate in the same manner as our SL series clutches.

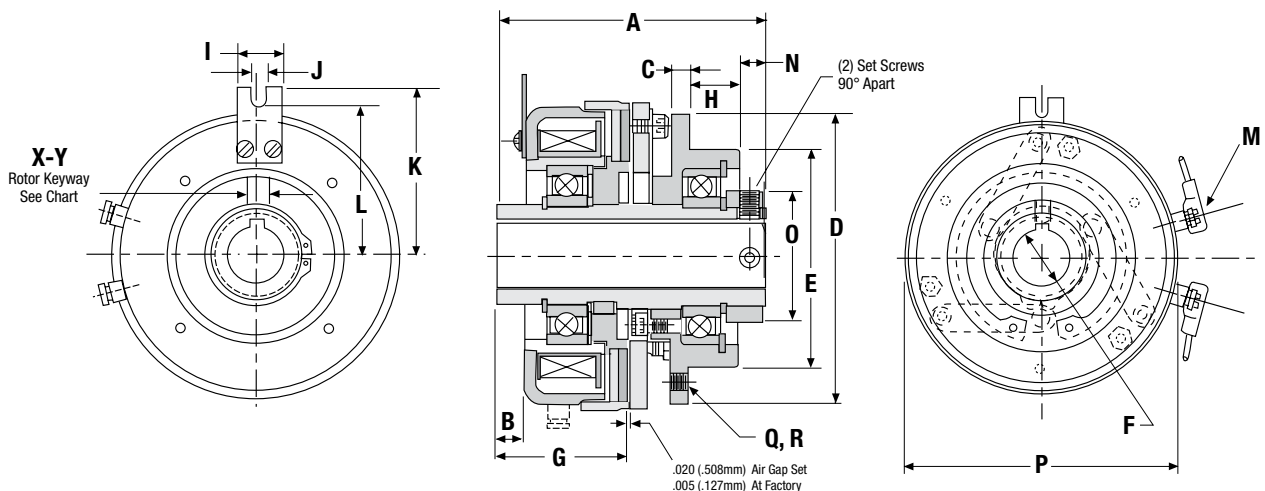
Customer Shall Maintain:

A loose-fitting pin through the anti-rotation tab to prevent preloading the bearings.

Model BSL11



Model BSL26, BSL30 & BSL42



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Mechanical

| MODEL NO. | STATIC TORQUE LB. - IN. | INERTIA LB. - IN. ² | | WEIGHT OZ. |
|-----------|-------------------------|--------------------------------|-----------|------------|
| | | ROTOR | ARM & HUB | |
| BSL11 | 6 | .013 | .030 | 8 |
| BSL26 | 80 | .290 | .530 | 38 |
| BSL30 | 125 | .560 | .990 | 54 |
| BSL42 | 250 | 2.250 | 4.990 | 94 |

Electrical

| MODEL NO. | 90 VDC | | 24 VDC | | 12 VDC | |
|-----------|--------|------|--------|------|--------|-------|
| | AMPS | OHMS | AMPS | OHMS | AMPS | OHMS |
| BSL11 | .048 | 1848 | .188 | 120 | .447 | 26.8 |
| BSL26 | .088 | 1024 | .358 | 67.1 | .760 | 15.8 |
| BSL30 | .091 | 988 | .378 | 65.3 | .729 | 16.5 |
| BSL42 | .124 | 722 | .468 | 51.2 | .934 | 12.84 |

Lead wire is UL recognized style 1213, 1015 or 1430, 22 gage.
Insulation is .050" O.D. on 11 unit; .064" or .095" O.D. on all other units.

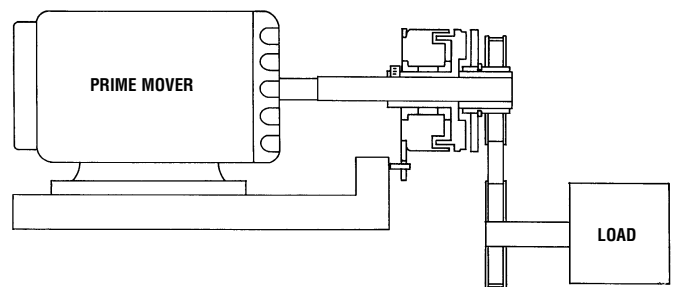
Dimensions

| MODEL NO. | A MAX. | B MAX. | C NOM. | D MAX. | E ±.001 | F NOM. | G NOM. | H NOM. | I MAX. | J MIN. | K NOM. | L NOM. | M ±.500 | N NOM. | O NOM. | P MAX. | ROTOR KEYWAY | | | | |
|-----------|--------|--------|--------|--------|---------|-----------------|--------|--------|--------|--------|--------|--------|-------------------------|--------|--------|--------|-----------------|---|---|------------------|------------------|
| | | | | | | | | | | | | | | | | | BORE | NOMINAL KEYWAY | | Q B.C. | R SIZE |
| | | | | | | | | | | | | | | | | | | X | Y | | |
| BSL11 | 1.785 | .184 | .405 | 1.380 | .7485 | 3/16 1/4 | .812 | .163 | .380 | .125 | .875 | .625 | 12.00 | .250 | .625 | 1.285 | N.A. | SET SCREWS ONLY | | 1.125 3-Holes | 6-32 UNC-2B |
| BSL26 | 2.930 | .140 | .260 | 2.505 | 1.498 | 1/2 5/8 | 1.375 | .500 | .510 | .190 | 1.750 | 1.467 | SCREW TERMI- NALS | .420 | 1.187 | 2.645 | 1/2 5/8 | .125 - .128 .1885 - .1905 | .560 - .567 .709 - .716 | 1.790 3-Holes | 6-32 UNC-2B |
| BSL30 | 2.961 | .140 | .395 | 2.883 | 1.498 | 1/2 | 1.360 | .500 | .442 | .170 | 2.050 | 1.740 | SCREW TERMI- NALS | .408 | 1.187 | 3.300 | 1/2 | .125 - .128 | .560 - .567 | 1.790 3-Holes | 6-32 UNC-2B |
| BSL42 | 3.350 | .000 | .267 | 4.015 | 2.999 | 3/4 7/8 1 | 1.405 | .673 | .645 | .188 | 2.500 | 2.216 | SCREW TERMI- NALS | .383 | 1.810 | 4.270 | 3/4 7/8 1 | .1885 - .1905 .1885 - .1905 .251 - .253 | .836 - .844 .962 - .970 1.113 - 1.121 | 3.500 3-Holes | 1/4-20 UNC-2B |

*X denotes keyway width, Y denotes keyway height plus bore.

Notes:

- BSL42 has a .188-.195 diameter hole in the anti-rotation tab.
- BSL26 has two ball bearings in field and armature assemblies.
- BSL30 has two ball bearings in armature assembly.
- BSL26 uses a special key provided by IDI for 5/8 bore.



See page 4 for Ordering Information