

SAE-AS28912

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#### Adopting Activity

Navy - AS  
(Project 3110-1112)

#### Review Activities:

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FSC 3110

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**AS28912**

Submitted for recognition as an American National Standard

FEDERAL SUPPLY CLASS  
3110

**NOTICE**

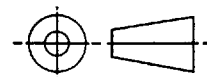
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THIRD ANGLE PROJECTION



ISSUED 1998-06

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP

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400 Commonwealth Drive, Warrendale, PA 15096-0001

**AEROSPACE STANDARD**

BEARING, ROLLER, SELF-ALIGNING, SINGLE ROW  
AIRFRAME, ANTI-FRICTION, SEALED, TYPE I

**AS28912**  
SHEET 1 OF 3

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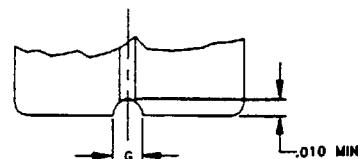
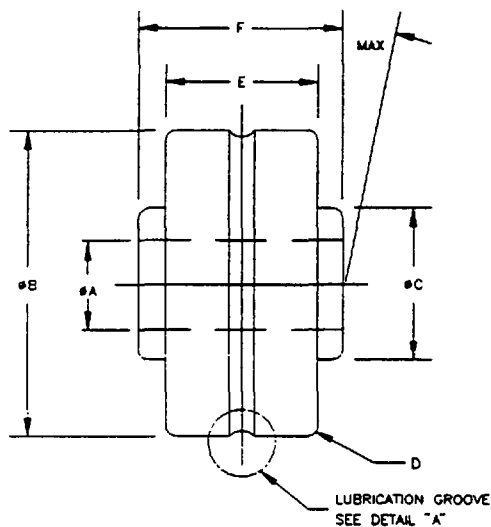
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DETAIL "A"

| MS<br>DASH<br>NO. | G<br>GROOVE WIDTH<br>MIN |         | LUBRICATION HOLE<br>DIA |          |
|-------------------|--------------------------|---------|-------------------------|----------|
|                   | IN.                      | (mm)    | IN.                     | (mm)     |
| -4C               | .063                     | (1.575) | .038                    | 1.065    |
| -5C               |                          |         |                         | (1.1941) |
| -6C               |                          |         |                         |          |
| -8C               | .078                     | (1.981) | .035                    | 1.307    |
| -10C              |                          |         |                         |          |
| -12C              |                          |         |                         |          |

| MS<br>DASH<br>NO. | ØA<br>+ .0000 (.000)<br>- .0005 (.013)<br>BORE |          | ØB<br>+ .0000 (.000)<br>- .0005 (.013)<br>O.D. |          | ØC<br>+ .005 (.127)<br>- .005 (.127)<br>DIA |          | D<br>+ .015 (.381)<br>- .000 (.000)<br>RAD. |         | E<br>+ .000 (.000)<br>- .005 (.127)<br>WIDTH<br>OUTER RING |          | F<br>+ .000 (.000)<br>- .005 (.127)<br>WIDTH<br>INNER RING |          | STATIC LIMIT<br>LOAD-POUNDS |       | WT.<br>MAX.<br>LBS. |
|-------------------|------------------------------------------------|----------|------------------------------------------------|----------|---------------------------------------------|----------|---------------------------------------------|---------|------------------------------------------------------------|----------|------------------------------------------------------------|----------|-----------------------------|-------|---------------------|
|                   | IN.                                            | (mm)     | IN.                                            | (mm)     | IN.                                         | (mm)     | IN.                                         | (mm)    | IN.                                                        | (mm)     | IN.                                                        | (mm)     | RADIAL                      | AXIAL |                     |
| -4C               | .2500                                          | (6.350)  | .9014                                          | (22.896) | .390                                        | (9.500)  |                                             |         | .464                                                       | (11.780) | .625                                                       | (15.880) | 3025                        | 910   | .04                 |
| -5C               | .3125                                          | (7.938)  | 1.2500                                         | (31.750) | .515                                        | (13.080) | .032                                        | (.813)  | .656                                                       | (16.660) | .812                                                       | (20.620) | 7350                        | 2210  | .17                 |
| -6C               | .3750                                          | (9.525)  | 1.4375                                         | (36.512) | .550                                        | (13.970) |                                             |         | .750                                                       | (19.050) | .937                                                       | (23.800) | 9600                        | 23.80 | .26                 |
| -8C               | .5000                                          | (12.700) | 1.6875                                         | (42.862) | .775                                        | (19.880) |                                             |         | .812                                                       | (20.620) | 1.000                                                      | (25.400) | 12500                       | 3750  | .34                 |
| -10C              | .6250                                          | (15.875) | 1.9375                                         | (49.212) | .869                                        | (22.070) | .050                                        | (1.118) | .937                                                       | (23.800) | 1.125                                                      | (28.580) | 17700                       | 5310  | .60                 |
| -12C              | .7500                                          | (19.050) | 2.3750                                         | (60.325) | 1.090                                       | (27.690) |                                             |         | 1.125                                                      | (28.580) | 1.312                                                      | (33.320) | 26900                       | 8070  | 1.04                |

| BASIC (NOMINAL) DIAMETER |                 | BEARING ROUNDNESS LIMITS |               |               |               |                        |               |               |               |  |
|--------------------------|-----------------|--------------------------|---------------|---------------|---------------|------------------------|---------------|---------------|---------------|--|
|                          |                 | BORE ACCEPTANCE LIMITS   |               |               |               | O.D. ACCEPTANCE LIMITS |               |               |               |  |
|                          |                 | d MIN                    | MEAN DIAMETER |               | d MAX         | D MIN                  | MEAN DIAMETER |               | D MAX         |  |
|                          |                 |                          | LOW           | HIGH          |               |                        | LOW           | HIGH          |               |  |
| OVER                     | INCL            |                          |               |               |               |                        |               |               |               |  |
| .0000(.000)              | 2.0000(50.800)  | -.0006(.015)             | -.0005(.013)  | + .0000(.000) | + .0001(.002) | -.0008(.020)           | -.0005(.013)  | + .0000(.000) | + .0003(.008) |  |
| 2.0000(50.800)           | 4.0000(101.600) | -.0009(.023)             | -.0007(.018)  | + .0000(.000) | + .0002(.005) | -.0012(.030)           | -.0007(.018)  | + .0000(.000) | + .0005(.013) |  |

1/ TOLERANCE ON -12 O.D. +.0000 (.000) TO -.0007 (.018)