

SAE-AS24463

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## Custodians:

Army - AT  
Navy - AS  
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Adopting Activity  
Navy - AS  
(Project 3110-1098)

## Review Activities:

Army - AR, AV, MI  
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Air Force - 11  
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AMSC N/A

FSC 3110

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THIRD ANGLE PROJECTION



ISSUED 1998-04

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP

AEROSPACE STANDARD

BEARING, ROLLER, NEEDLE-SINGLE ROW, HEAVY DUTY,  
SELF-ALIGNING, TYPE III, ANTIFRICTION, INCH

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SHEET 1 OF 3



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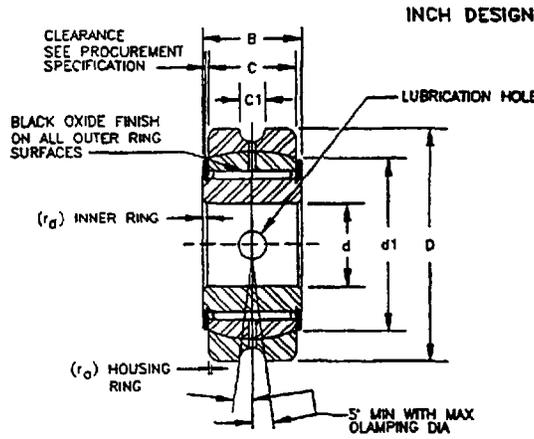
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DIMENSIONS IN INCHES

| DASH NO | #d BORE | D HOUSING RING OUTSIDE DIA | D OVERALL WIDTH | C OUTER RING WIDTH | d1 WASHER OUTSIDE DIA | C1 LUBRICATION GROOVE WIDTH | r <sub>a</sub> 1/ FILLET MAX | TOTAL RADIAL PLAY MAX | d <sub>o</sub> CLAMPING DIAMETER |       | LIMIT LOAD RATING LBF | MASS (APPROX) LB | HOUSING SIZE GAGE +0.0000 -0.0001 |        |
|---------|---------|----------------------------|-----------------|--------------------|-----------------------|-----------------------------|------------------------------|-----------------------|----------------------------------|-------|-----------------------|------------------|-----------------------------------|--------|
|         |         |                            |                 |                    |                       |                             |                              |                       | MAX                              | MIN   |                       |                  | LOW                               | HIGH   |
| -3      | 0.1900  | 0.8750                     | 0.312           | 0.218              | 0.625                 | 0.042                       | 0.022                        | 0.0029                | 0.525                            | 0.438 | 1800                  | 0.041            | 0.8742                            | 0.8747 |
| -4      | 0.2500  | 0.9375                     | 0.375           | 0.281              | 0.687                 | 0.093                       | 0.022                        | 0.0029                | 0.688                            | 0.516 | 2870                  | 0.053            | 0.9367                            | 0.9372 |
| -5      | 0.3125  | 1.0625                     | 0.437           | 0.344              | 0.750                 | 0.093                       | 0.022                        | 0.0029                | 0.734                            | 0.578 | 4070                  | 0.079            | 1.0617                            | 1.0622 |

DIMENSIONS IN MILLIMETERS

| DASH NO | #d BORE | D HOUSING RING OUTSIDE DIA | D OVERALL WIDTH | C OUTER RING WIDTH | d1 WASHER OUTSIDE DIA | C1 LUBRICATION GROOVE WIDTH | r <sub>a</sub> 1/ FILLET MAX | TOTAL RADIAL PLAY MAX | d <sub>o</sub> CLAMPING DIAMETER |       | LIMIT LOAD RATING N | MASS (APPROX) KG | HOUSING SIZE GAGE +0.0000 -0.0003 |        |
|---------|---------|----------------------------|-----------------|--------------------|-----------------------|-----------------------------|------------------------------|-----------------------|----------------------------------|-------|---------------------|------------------|-----------------------------------|--------|
|         |         |                            |                 |                    |                       |                             |                              |                       | MAX                              | MIN   |                     |                  | LOW                               | HIGH   |
| -3      | 4.826   | 22.225                     | 7.92            | 5.54               | 15.88                 | 1.37                        | 0.6                          | 0.074                 | 15.88                            | 11.13 | 8000                | 0.019            | 22.205                            | 22.217 |
| -4      | 6.350   | 22.812                     | 9.52            | 7.14               | 17.45                 | 2.36                        | 0.6                          | 0.074                 | 17.48                            | 13.11 | 12700               | 0.024            | 23.792                            | 23.605 |
| -5      | 7.938   | 26.988                     | 11.10           | 8.74               | 19.05                 | 2.36                        | 0.6                          | 0.074                 | 18.64                            | 14.68 | 18100               | 0.036            | 26.967                            | 26.950 |

1/ THE CHAMFER ON BEARINGS MUST CLEAR THE MAXIMUM FILLET RADIUS GIVEN IN THE TABLE. THIS SPECIFICATION DOES NOT CONTROL BEARING CHAMFER CONTOURS.