



FAG

**53312**

## Axial deep groove ball bearing

Schaeffler ID:  
0190071400000

Axial deep groove ball bearing 533, single direction, with spherical housing washer, steel sheet metal cage

## Technical information

## Main Dimensions &amp; Performance Data

|          |             |                                  |
|----------|-------------|----------------------------------|
| d        | 60 mm       | Bore diameter                    |
| D        | 110 mm      | Outside diameter                 |
| T        | 38.3 mm     | Height                           |
| $C_a$    | 101,000 N   | Basic dynamic load rating, axial |
| $C_{0a}$ | 207,000 N   | Basic static load rating, axial  |
| $C_{ua}$ | 9,500 N     | Fatigue load limit, axial        |
| $n_G$    | 3,150 1/min | Limiting speed                   |
| $n_{gr}$ | 5,700 1/min | Reference speed                  |
|          | 1.372 kg    | Weight                           |

## Dimensions

|           |        |                                 |
|-----------|--------|---------------------------------|
| $r_{min}$ | 1.1 mm | Minimum chamfer dimension       |
| $D_1$     | 62 mm  | Bore diameter housing washer    |
| $d_1$     | 110 mm | Lip diameter shaft washer       |
| R         | 90 mm  | Radius spherical housing washer |
| A         | 41 mm  | Distance of the center point    |
| $T_1$     | 42 mm  | Height with seat washer         |

## Mounting dimensions

|             |       |                                      |
|-------------|-------|--------------------------------------|
| $d_{a min}$ | 90 mm | Minimum diameter shaft shoulder      |
| $D_{a max}$ | 85 mm | Maximum diameter of housing shoulder |
| $r_{a max}$ | 1 mm  | Maximum recess radius                |

## Additional information

|   |      |                     |
|---|------|---------------------|
| A | 0.28 | Minimum load factor |
|   | U312 | Seat washer         |

## Temperature range

|           |        |                            |
|-----------|--------|----------------------------|
| $T_{min}$ | -30 °C | Operating temperature min. |
| $T_{max}$ | 150 °C | Operating temperature max. |

