

**FAG****53315** **Axial deep groove ball bearing**

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

## Technical information

**Your current product variant**

|                                  |    |   |
|----------------------------------|----|---|
| Cage                             | JP | Steel sheet metal                       |
| Tolerance class                  | PN | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |

**Main Dimensions & Performance Data**

|             |             |                                  |
|-------------|-------------|----------------------------------|
| d           | 75 mm       | Inner diameter shaft washer      |
| D           | 135 mm      | Outer diameter housing washer    |
| T           | 48,1 mm     | Height                           |
| $C_a$       | 163.000 N   | Basic dynamic load rating, axial |
| $C_{0a}$    | 360.000 N   | Basic static load rating, axial  |
| $C_{ua}$    | 15.900 N    | Fatigue load limit, axial        |
| $n_G$       | 2.480 1/min | Limiting speed                   |
| $n_{gr}$    | 4.650 1/min | Reference speed                  |
| $\approx m$ | 2,604 kg    | Weight                           |

**Mounting dimensions**

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 111 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 105 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum filled radius                |



## Dimensions

|            |        |                                 |
|------------|--------|---------------------------------|
| $r_{\min}$ | 1,5 mm | Minimum chamfer dimension       |
| $D_1$      | 77 mm  | Inner diameter housing washer   |
| $d_1$      | 135 mm | Outer diameter shaft washer     |
| R          | 100 mm | Radius spherical housing washer |
| A          | 37 mm  | Distance of the center point    |
| $T_1$      | 52 mm  | Height with seat washer         |
| $D_2$      | 105 mm | Bore diameter seat washer       |
| $D_3$      | 140 mm | Outside diameter seat washer    |
| C          | 15 mm  | Height seat washer              |

## Temperature range

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

## Calculation factors

|   |      |                     |
|---|------|---------------------|
| A | 0,75 | Minimum load factor |
|---|------|---------------------|

## Additional information

|      |             |
|------|-------------|
| U315 | Seat washer |
|------|-------------|

## Characteristics

|  |                                       |
|--|---------------------------------------|
|  | Axial load in one direction           |
|  | Grease Lubrication                    |
|  | Oil Lubrication                       |
|  | Not sealed                            |
|  | Static angular error and misalignment |