

**FAG****53214**

## Axial deep groove ball bearing

Axial deep groove ball bearing 532, 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 &amp; Performance Data

|                 |             |                                  |
|-----------------|-------------|----------------------------------|
| d               | 70 mm       | Inner diameter shaft washer      |
| D               | 105 mm      | Outer diameter housing washer    |
| T               | 28,8 mm     | Height                           |
| C <sub>a</sub>  | 66.000 N    | Basic dynamic load rating, axial |
| C <sub>0a</sub> | 159.000 N   | Basic static load rating, axial  |
| C <sub>ua</sub> | 7.200 N     | Fatigue load limit, axial        |
| n <sub>G</sub>  | 4.000 1/min | Limiting speed                   |
| n <sub>gr</sub> | 4.550 1/min | Reference speed                  |
| ≈m              | 0,78 kg     | Weight                           |

## Mounting dimensions

|                    |       |                                      |
|--------------------|-------|--------------------------------------|
| d <sub>a min</sub> | 91 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 88 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1 mm  | Maximum filled radius                |



## Dimensions

|            |        |                                 |
|------------|--------|---------------------------------|
| $r_{\min}$ | 1 mm   | Minimum chamfer dimension       |
| $D_1$      | 72 mm  | Inner diameter housing washer   |
| $d_1$      | 105 mm | Outer diameter shaft washer     |
| R          | 80 mm  | Radius spherical housing washer |
| A          | 38 mm  | Distance of the center point    |
| $T_1$      | 32 mm  | Height with seat washer         |
| $D_2$      | 88 mm  | Bore diameter seat washer       |
| $D_3$      | 110 mm | Outside diameter seat washer    |
| C          | 9 mm   | Height seat washer              |

## Temperature range

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

## Calculation factors

|   |      |                     |
|---|------|---------------------|
| A | 0,16 | Minimum load factor |
|---|------|---------------------|

## Additional information

|      |             |
|------|-------------|
| U214 | Seat washer |
|------|-------------|

## Characteristics

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