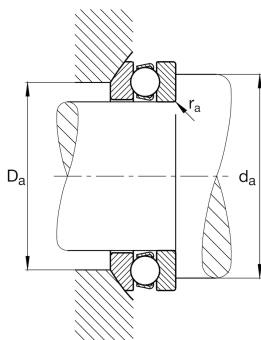
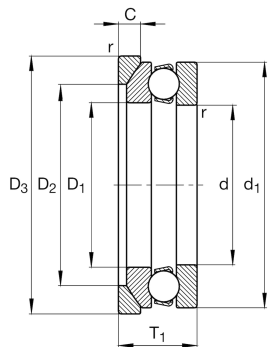
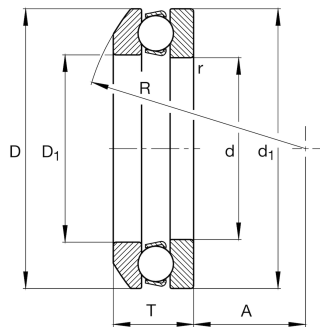
**FAG****53310**

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

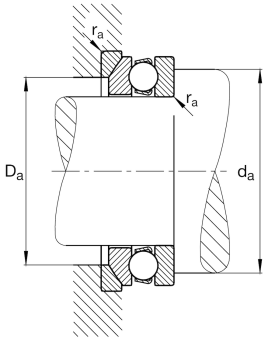
|                                  |    |                                         |
|----------------------------------|----|-----------------------------------------|
| Cage                             | JP | Steel sheet metal                       |
| Tolerance class                  | PN | Normal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

### Main Dimensions & Performance Data

|                 |             |                                  |
|-----------------|-------------|----------------------------------|
| d               | 50 mm       | Inner diameter shaft washer      |
| D               | 95 mm       | Outer diameter housing washer    |
| T               | 34,3 mm     | Height                           |
| C <sub>a</sub>  | 82.000 N    | Basic dynamic load rating, axial |
| C <sub>0a</sub> | 169.000 N   | Basic static load rating, axial  |
| C <sub>ua</sub> | 7.700 N     | Fatigue load limit, axial        |
| n <sub>G</sub>  | 3.550 1/min | Limiting speed                   |
| n <sub>gr</sub> | 6.400 1/min | Reference speed                  |
| ≈m              | 0,969 kg    | Weight                           |

### Mounting dimensions

|                    |       |                                      |
|--------------------|-------|--------------------------------------|
| d <sub>a min</sub> | 77 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 72 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1 mm  | Maximum filled radius                |



Dimensions

|                  |        |                                 |
|------------------|--------|---------------------------------|
| r <sub>min</sub> | 1,1 mm | Minimum chamfer dimension       |
| D <sub>1</sub>   | 52 mm  | Inner diameter housing washer   |
| d <sub>1</sub>   | 95 mm  | Outer diameter shaft washer     |
| R                | 72 mm  | Radius spherical housing washer |
| A                | 28 mm  | Distance of the center point    |
| T <sub>1</sub>   | 37 mm  | Height with seat washer         |
| D <sub>2</sub>   | 72 mm  | Bore diameter seat washer       |
| D <sub>3</sub>   | 100 mm | Outside diameter seat washer    |
| C                | 11 mm  | Height seat washer              |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 150 °C | Operating temperature max. |

Calculation factors

|   |      |                     |
|---|------|---------------------|
| A | 0,18 | Minimum load factor |
|---|------|---------------------|

Additional information

|      |             |
|------|-------------|
| U310 | Seat washer |
|------|-------------|

Characteristics

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