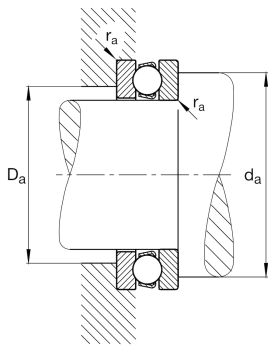
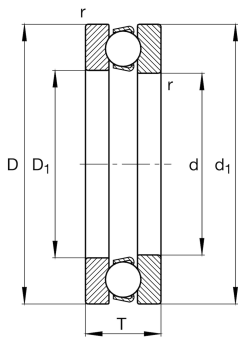


**FAG****51120**

Axial deep groove ball bearing

Axial deep groove ball bearing 511, single direction, 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               | 100 mm      | Inner diameter shaft washer      |
| D               | 135 mm      | Outer diameter housing washer    |
| T               | 25 mm       | Height                           |
| C <sub>a</sub>  | 85,000 N    | Basic dynamic load rating, axial |
| C <sub>0a</sub> | 270,000 N   | Basic static load rating, axial  |
| C <sub>ua</sub> | 11,300 N    | Fatigue load limit, axial        |
| n <sub>G</sub>  | 3,500 1/min | Limiting speed                   |
| n <sub>gr</sub> | 3,100 1/min | Reference speed                  |
| m               | 0.992 kg    | Weight                           |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 121 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 114 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1 mm   | Maximum filled radius                |



Dimensions

|                  |        |                               |
|------------------|--------|-------------------------------|
| r <sub>min</sub> | 1 mm   | Minimum chamfer dimension     |
| D <sub>1</sub>   | 102 mm | Inner diameter housing washer |
| d <sub>1</sub>   | 135 mm | Outer diameter shaft washer   |

Temperature range

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

Calculation factors

|   |      |                     |
|---|------|---------------------|
| A | 0.36 | Minimum load factor |
|---|------|---------------------|

Characteristics

|                                                                                     |                |                             |
|-------------------------------------------------------------------------------------|----------------|-----------------------------|
|   | F <sub>a</sub> | Axial load in one direction |
|  |                | Grease Lubrication          |
|  |                | Oil Lubrication             |
|  |                | Not sealed                  |