

**FAG****51138-MP**

Axial deep groove ball bearing

Axial deep groove ball bearing 511...-MP,  
single direction, solid brass cage

## Technical information



## Your current product variant

|                                  |    |  |
|----------------------------------|----|--|
| Cage                             | MP | Solid brass cage, rolling element guided |
| Tolerance class                  | PN | Normal (ISO 492:2023)                    |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150°  |

## Main Dimensions &amp; Performance Data

|                 |             |                                  |
|-----------------|-------------|----------------------------------|
| d               | 190 mm      | Inner diameter shaft washer      |
| D               | 240 mm      | Outer diameter housing washer    |
| T               | 37 mm       | Height                           |
| C <sub>a</sub>  | 161,000 N   | Basic dynamic load rating, axial |
| C <sub>0a</sub> | 650,000 N   | Basic static load rating, axial  |
| C <sub>ua</sub> | 20,200 N    | Fatigue load limit, axial        |
| n <sub>G</sub>  | 2,040 1/min | Limiting speed                   |
| n <sub>gr</sub> | 1,850 1/min | Reference speed                  |
| m               | 4.06 kg     | Weight                           |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 220 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 210 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1 mm   | Maximum fillet radius                |



### Dimensions

|           |        |                               |
|-----------|--------|-------------------------------|
| $r_{min}$ | 1.1 mm | Minimum chamfer dimension     |
| $D_1$     | 193 mm | Inner diameter housing washer |
| $d_1$     | 237 mm | Outer diameter shaft washer   |





### Temperature range

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

### Calculation factors

|   |     |                     |
|---|-----|---------------------|
| A | 2.3 | Minimum load factor |
|---|-----|---------------------|

### Characteristics

-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed