

**FAG****231/670-B-K-MB**

## Spherical Roller Bearing

Spherical roller bearing 231...-B-K-MB,  
symmetric 3 ribs

## Technical information



## Your current product variant

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | B            | With fixed central rib    |
| Bore type                 | K            | Tapered, taper 1:12       |
| Cage                      | MB           | Solid brass cage          |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication facility    | Standard     |                           |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 670 mm       | Bore diameter                     |
| D               | 1.090 mm     | Outside diameter                  |
| B               | 336 mm       | Width                             |
| C <sub>r</sub>  | 11.000.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 23.900.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.600.000 N  | Fatigue load limit, radial        |
| n <sub>G</sub>  | 495 1/min    | Limiting speed                    |
| n <sub>gr</sub> | 230 1/min    | Reference speed                   |
| m               | 1.230 kg     | Weight                            |

## Mounting dimensions

|                    |          |                                      |
|--------------------|----------|--------------------------------------|
| d <sub>a min</sub> | 702 mm   | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 1.058 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 6 mm     | Maximum recess radius                |



## Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 7,5 mm   | Minimum chamfer dimension   |
| $D_1$      | 948,2 mm | Bore diameter outer ring    |
| $d_s$      | 12,5 mm  | Diameter lubrication hole   |
| $n_s$      | 23,5 mm  | Width of lubricating groove |

## Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 200 °C | Operating temperature max. |

## Calculation factors

|       |      |  |
|-------|------|--|
| $e$   | 0,31 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,21 | Dynamic axial load factor  |
| $Y_2$ | 3,29 | Dynamic axial load factor  |
| $Y_0$ | 2,16 | Static axial load factor   |

## Characteristics



Large bearing