

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

## Spherical Roller Bearing

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

## Technical information



## Your current product variant

Design	B	With fixed central rib
Bore type	Z	Cylindrical
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
$C_r$	11.000.000 N	Basic dynamic load rating, radial
$C_{0r}$	23.900.000 N	Basic static load rating, radial
$C_{ur}$	1.600.000 N	Fatigue load limit, radial
$n_G$	495 1/min	Limiting speed
$n_{gr}$	230 1/min	Reference speed
$m$	1.265 kg	Weight

## Mounting dimensions

$d_{a \min}$	702 mm	Minimum diameter shaft shoulder
$D_{a \max}$	1.058 mm	Maximum diameter of housing shoulder
$r_{a \max}$	6 mm	Maximum recess radius





## Dimensions

$r_{\min}$	7,5 mm	Minimum chamfer dimension
$D_1$	948,15 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