



FAG

**231/530-BEA-XL-MB1**

Spherical Roller Bearing

Spherical roller bearing 231..-BEA-XL-MB1,  
symmetric 2 outer ribs with rib washer

X-life

## Technical information



## Your current product variant

Design	BEA	With lose center lip ring
Bore type	Z	Cylindrical
Cage	MB1	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	530 mm	Bore diameter
D	870 mm	Outside diameter
B	272 mm	Width
$C_r$	8.900.000 N	Basic dynamic load rating, radial
$C_{0r}$	15.000.000 N	Basic static load rating, radial
$C_{ur}$	960.000 N	Fatigue load limit, radial
$n_G$	660 1/min	Limiting speed
$n_{gr}$	325 1/min	Reference speed
$\approx m$	639 kg	Weight

## Mounting dimensions

$d_{a \min}$	562 mm	Minimum diameter shaft shoulder
$D_{a \max}$	838 mm	Maximum diameter of housing shoulder
$r_{a \max}$	6 mm	Maximum recess radius



## Dimensions

$r_{\min}$	7,5 mm	Minimum chamfer dimension
$D_1$	760,5 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

$e$	0,3	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,25	Dynamic axial load factor
$Y_2$	3,34	Dynamic axial load factor
$Y_0$	2,2	Static axial load factor

## Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed
	Large bearing
	Static angular error and misalignment
	Dynamic angular error and misalignment