

**FAG****231/560-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	
Locating feature, bearing outer ring	Without	
Handling thread holes	Without	

## Main Dimensions &amp; Performance Data

d	560 mm	Bore diameter
D	920 mm	Outside diameter
B	280 mm	Width
$C_r$	9.700.000 N	Basic dynamic load rating, radial
$C_{0r}$	16.400.000 N	Basic static load rating, radial
$C_{ur}$	1.060.000 N	Fatigue load limit, radial
$n_G$	630 1/min	Limiting speed
$n_{gr}$	300 1/min	Reference speed
$m$	738 kg	Weight



### Mounting dimensions

$d_{a \min}$	592 mm	Minimum diameter shaft shoulder
$D_{a \max}$	888 mm	Maximum diameter of housing shoulder
$r_{a \max}$	6 mm	Maximum recess radius

### Dimensions

$r_{\min}$	7,5 mm	Minimum chamfer dimension
$D_1$	806,6 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

$e$	0,29	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,32	Dynamic axial load factor
$Y_2$	3,45	Dynamic axial load factor
$Y_0$	2,26	Static axial load factor



### Characteristics

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-  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