

**FAG****23096-BEA-XL-K-MB1**

## Spherical Roller Bearing

Spherical roller bearing 230..-BEA-XL-K-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	K	Tapered, taper 1:12
Cage	MB1	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication	Standard	

## Main Dimensions &amp; Performance Data

d	480 mm	Bore diameter
D	700 mm	Outside diameter
B	165 mm	Width
$C_r$	4.450.000 N	Basic dynamic load rating, radial
$C_{0r}$	8.000.000 N	Basic static load rating, radial
$C_{ur}$	640.000 N	Fatigue load limit, radial
$n_G$	950 1/min	Limiting speed
$n_{gr}$	550 1/min	Reference speed
$m$	205,5 kg	Weight



### Mounting dimensions

$d_{a \min}$	503 mm	Minimum diameter shaft shoulder
$D_{a \max}$	677 mm	Maximum diameter of housing shoulder
$r_{a \max}$	5 mm	Maximum recess radius
$d_{a \max}$	529 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	499 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	18 mm	Minimum cavity width of the sleeve

### Dimensions

$r_{\min}$	6 mm	Minimum chamfer dimension
$D_1$	637,3 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

$e$	0,21	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3,27	Dynamic axial load factor
$Y_2$	4,87	Dynamic axial load factor
$Y_0$	3,2	Static axial load factor

### Additional information

H3096-HG	Adapter sleeve
AHX3096G-H	Withdrawal sleeve



### 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