

**FAG****23160-BEA-XL-K-MB1**

Spherical Roller Bearing

Spherical roller bearing 231...-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	300 mm	Bore diameter
D	500 mm	Outside diameter
B	160 mm	Width
C <sub>r</sub>	3.250.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	4.950.000 N	Basic static load rating, radial
C <sub>ur</sub>	375.000 N	Fatigue load limit, radial
n <sub>G</sub>	1.300 1/min	Limiting speed
n <sub>gr</sub>	720 1/min	Reference speed
m	121,095 kg	Weight



### Mounting dimensions

$d_{a \min}$	320 mm	Minimum diameter shaft shoulder
$D_{a \max}$	480 mm	Maximum diameter of housing shoulder
$r_{a \max}$	4 mm	Maximum recess radius
$d_{a \max}$	347 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	318 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	12 mm	Minimum cavity width of the sleeve

### Dimensions

$r_{\min}$	5 mm	Minimum chamfer dimension
$D_1$	436,8 mm	Bore diameter outer ring
$d_s$	9,5 mm	Diameter lubrication hole
$n_s$	17,7 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
$Y_1$	2,18	Dynamic axial load factor
$Y_2$	3,24	Dynamic axial load factor
$Y_0$	2,13	Static axial load factor

### Additional information

H3160	Adapter sleeve
AH3160G	Withdrawal sleeve



### 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