

**FAG****23160-BEA-XL-MB1-H151B-C3**

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	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	
Locating feature, bearing outer ring	H151B	2 Locking features, bearing outer ring

Main Dimensions & Performance Data

d	300 mm	Bore diameter
D	500 mm	Outside diameter
B	160 mm	Width
C_r	3.250.000 N	Basic dynamic load rating, radial
C_{0r}	4.950.000 N	Basic static load rating, radial
C_{ur}	375.000 N	Fatigue load limit, radial
n_G	1.300 1/min	Limiting speed
n_{gr}	720 1/min	Reference speed
m	125,115 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

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



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