

**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 & 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



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