

**FAG****23088-BEA-XL-MB1-H151**

Spherical Roller Bearing

Spherical roller bearing 230..-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	H151	1 Locking feature, bearing outer ring

Main Dimensions & Performance Data

d	440 mm	Bore diameter
D	650 mm	Outside diameter
B	157 mm	Width
C_r	3.950.000 N	Basic dynamic load rating, radial
C_{0r}	6.900.000 N	Basic static load rating, radial
C_{ur}	560.000 N	Fatigue load limit, radial
n_G	1.030 1/min	Limiting speed
n_{gr}	610 1/min	Reference speed
m	176 kg	Weight



Mounting dimensions

$d_{a \min}$	463 mm	Minimum diameter shaft shoulder
$D_{a \max}$	627 mm	Maximum diameter of housing shoulder
$r_{a \max}$	5 mm	Maximum recess radius

Dimensions

r_{\min}	6 mm	Minimum chamfer dimension
D_1	589,3 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	3,17	Dynamic axial load factor
Y_2	4,72	Dynamic axial load factor
Y_0	3,1	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