

**FAG****231/710-B-K-MB-C3**

Spherical Roller Bearing

Spherical roller bearing 231...-B-K-MB,
symmetric 3 ribs

Technical information



Your current product variant

Design	B	With fixed central rib
Bore type	K	Tapered, taper 1:12
Cage	MB	Solid brass cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & Performance Data

d	710 mm	Bore diameter
D	1.150 mm	Outside diameter
B	345 mm	Width
C _r	12.500.000 N	Basic dynamic load rating, radial
C _{0r}	27.000.000 N	Basic static load rating, radial
C _{ur}	1.830.000 N	Fatigue load limit, radial
n _G	470 1/min	Limiting speed
n _{gr}	207 1/min	Reference speed
m	1.413 kg	Weight

Mounting dimensions

d _{a min}	750 mm	Minimum diameter shaft shoulder
D _{a max}	1.110 mm	Maximum diameter of housing shoulder
r _{a max}	8 mm	Maximum recess radius



Dimensions

r_{\min}	9,5 mm	Minimum chamfer dimension
D_1	1.006,6 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	0,3	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,25	Dynamic axial load factor
Y_2	3,34	Dynamic axial load factor
Y_0	2,2	Static axial load factor

Characteristics



Large bearing