

**FAG****231/670-B-MB-C3** [↗](#)

Spherical Roller Bearing

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

Technical information



Your current product variant

Design	B	With fixed central rib
Bore type	Z	Cylindrical
Cage	MB	Solid brass cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	670 mm	Bore diameter
D	1.090 mm	Outside diameter
B	336 mm	Width
C_r	11.000.000 N	Basic dynamic load rating, radial
C_{0r}	23.900.000 N	Basic static load rating, radial
C_{ur}	1.600.000 N	Fatigue load limit, radial
n_G	495 1/min	Limiting speed
n_{gr}	230 1/min	Reference speed
m	1.265 kg	Weight

Mounting dimensions

$d_{a \min}$	702 mm	Minimum diameter shaft shoulder
$D_{a \max}$	1.058 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	948,15 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	0,31	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,21	Dynamic axial load factor
Y_2	3,29	Dynamic axial load factor
Y_0	2,16	Static axial load factor

Characteristics



Large bearing