

**FAG****23852-B-MB-C3** [↗](#)

## Spherical Roller Bearing

Spherical roller bearing 238..-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 &amp; Performance Data

d	260 mm	Bore diameter
D	320 mm	Outside diameter
B	45 mm	Width
$C_r$	415.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.010.000 N	Basic static load rating, radial
$C_{ur}$	68.000 N	Fatigue load limit, radial
$n_G$	2.550 1/min	Limiting speed
$n_{gr}$	1.180 1/min	Reference speed
$m$	8,28 kg	Weight

## Mounting dimensions

$d_{a \min}$	268,8 mm	Minimum diameter shaft shoulder
$D_{a \max}$	311,2 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius





## Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$D_1$	303,2 mm	Bore diameter outer ring
$d_s$	3,2 mm	Diameter lubrication hole
$n_s$	6,5 mm	Width of lubricating groove









## Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

## Calculation factors

$e$	0,12	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	5,72	Dynamic axial load factor
$Y_2$	8,51	Dynamic axial load factor
$Y_0$	5,59	Static axial load factor

## Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed
	Static angular error and misalignment
	Dynamic angular error and misalignment