

**FAG****23880-MB**

## Spherical Roller Bearing

Spherical roller bearing 238..-MB, symmetric  
3 ribs

## Technical information



## Your current product variant

Bore type	Z	Cylindrical
Cage	MB	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	400 mm	Bore diameter
D	500 mm	Outside diameter
B	75 mm	Width
$C_r$	1.060.000 N	Basic dynamic load rating, radial
$C_{0r}$	2.650.000 N	Basic static load rating, radial
$C_{ur}$	179.000 N	Fatigue load limit, radial
$n_G$	1.520 1/min	Limiting speed
$n_{gr}$	720 1/min	Reference speed
$m$	34,5 kg	Weight

## Mounting dimensions

$d_{a \min}$	410,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	489,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius



## Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	471 mm	Bore diameter outer ring
$d_s$	6,3 mm	Diameter lubrication hole
$n_s$	12,2 mm	Width of lubricating groove

## Temperature range

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

## Calculation factors

$e$	0,13	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	5,14	Dynamic axial load factor
$Y_2$	7,66	Dynamic axial load factor
$Y_0$	5,03	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