

**FAG****23864-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	320 mm	Bore diameter
D	400 mm	Outside diameter
B	60 mm	Width
$C_r$	680.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.640.000 N	Basic static load rating, radial
$C_{ur}$	116.000 N	Fatigue load limit, radial
$n_G$	2.000 1/min	Limiting speed
$n_{gr}$	940 1/min	Reference speed
$\approx m$	18 kg	Weight

## Mounting dimensions

$d_{a \min}$	330,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	389,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius





## Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	378,1 mm	Bore diameter outer ring
$d_s$	4,8 mm	Diameter lubrication hole
$n_s$	9,5 mm	Width of lubricating groove

## Temperature range

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

## Calculation factors

$e$	0,13	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	5,06	Dynamic axial load factor
$Y_2$	7,53	Dynamic axial load factor
$Y_0$	4,95	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