

**FAG****23944-S-MB-C3**

## Spherical Roller Bearing

Spherical roller bearings 239, main dimensions to DIN 635-2

## Technical information

**Your current product variant**

Bore type	Z	Cylindrical
Cage	MB	Solid brass cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	S	With 3 lubricating holes and groove

**Main Dimensions & Performance Data**

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	60 mm	Width
$C_r$	610.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.240.000 N	Basic static load rating, radial
$C_{ur}$	74.000 N	Fatigue load limit, radial
$n_G$	2.600 1/min	Limiting speed
$n_{gr}$	1.460 1/min	Reference speed
$m$	12,4 kg	Weight

**Mounting dimensions**

$d_{a \min}$	230,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	289,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius



## Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	277,4 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

$e$	0,18	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3,76	Dynamic axial load factor
$Y_2$	5,59	Dynamic axial load factor
$Y_0$	3,67	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