

**FAG****23984-K-MB**

## Spherical Roller Bearing

Spherical roller bearing 239..-K-MB,  
symmetric 3 ribs

## Technical information



## Your current product variant

Bore type	K	Tapered, taper 1:12
Cage	MB	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	420 mm	Bore diameter
D	560 mm	Outside diameter
B	106 mm	Width
$C_r$	1.910.000 N	Basic dynamic load rating, radial
$C_{0r}$	4.450.000 N	Basic static load rating, radial
$C_{ur}$	310.000 N	Fatigue load limit, radial
$n_G$	1.230 1/min	Limiting speed
$n_{gr}$	660 1/min	Reference speed
$\approx m$	71,72 kg	Weight

## Mounting dimensions

$d_{a \min}$	434,6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	545,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius
$d_{a \max}$	455 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	433 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	15 mm	Minimum cavity width of the sleeve



### Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
$D_1$	519,5 mm	Bore diameter outer ring
$d_s$	9,5 mm	Diameter lubrication hole
$n_s$	17,7 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
$Y_1$	3,85	Dynamic axial load factor
$Y_2$	5,73	Dynamic axial load factor
$Y_0$	3,76	Static axial load factor

### Additional information

H3984-HG	Adapter sleeve
AH3984G-H	Withdrawal sleeve



### Characteristics

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