

**FAG****23984-K-MB-C3** [↗](#)

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	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & 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
$\approx m$	71,65 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

-  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