

**FAG****23936-S-K-MB-C3**

Spherical Roller Bearing

Spherical roller bearings 239...-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

Technical information

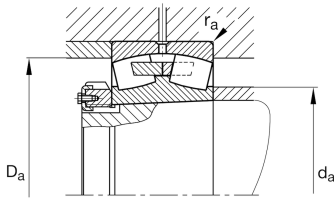


Your current product variant

Bore type	K	Tapered, taper 1:12
Cage	MB	Solid brass cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	S	With 3 lubricating holes and groove

Main Dimensions & Performance Data

d	180 mm	Bore diameter
D	250 mm	Outside diameter
B	52 mm	Width
C_r	445.000 N	Basic dynamic load rating, radial
C_{0r}	840.000 N	Basic static load rating, radial
C_{ur}	59.000 N	Fatigue load limit, radial
n_G	3.200 1/min	Limiting speed
n_{gr}	1.850 1/min	Reference speed
m	7,75 kg	Weight





Mounting dimensions

$d_{a \min}$	188,8 mm	Minimum diameter shaft shoulder
$D_{a \max}$	241,2 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius
$d_{a \max}$	198 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	188 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	8 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	230,9 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	0,2	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	3,42	Dynamic axial load factor
Y_2	5,09	Dynamic axial load factor
Y_0	3,34	Static axial load factor

Additional information

H3936	Adapter sleeve
AH3936	Withdrawal sleeve



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