

**FAG****23980-B-K-MB**

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

Design	B	With fixed central rib
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 & Performance Data

d	400 mm	Bore diameter
D	540 mm	Outside diameter
B	106 mm	Width
C_r	1.830.000 N	Basic dynamic load rating, radial
C_{0r}	4.150.000 N	Basic static load rating, radial
C_{ur}	280.000 N	Fatigue load limit, radial
n_G	1.290 1/min	Limiting speed
n_{gr}	710 1/min	Reference speed
$\approx m$	69,44 kg	Weight





Mounting dimensions

$d_{a \min}$	414,6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	525,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius
$d_{a \max}$	435 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	413 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	499 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	3,71	Dynamic axial load factor
Y_2	5,52	Dynamic axial load factor
Y_0	3,63	Static axial load factor

Additional information

H3980-HG	Adapter sleeve
AH3980G-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