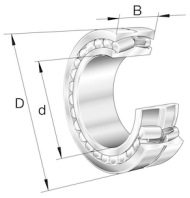


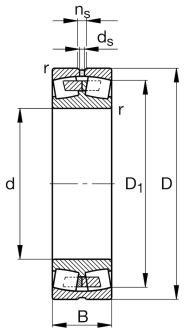
FAG

23852-B-MB-H40AC

Spherical Roller Bearing

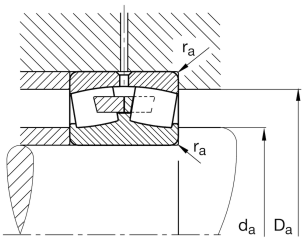
Spherical roller bearing 238..-B-MB-H40AC, symmetric 3 ribs

Technical information



Your current product variant

Design	B	With fixed central rib
Bore type	Z	Cylindrical
Cage	MB	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	H40AC	6 lubricating holes and groove at the inner ring



Main Dimensions & Performance Data

d	260 mm	Bore diameter
D	320 mm	Outside diameter
B	45 mm	Width
C_r	415.000 N	Basic dynamic load rating, radial
C_{0r}	1.010.000 N	Basic static load rating, radial
C_{ur}	68.000 N	Fatigue load limit, radial
n_G	2.550 1/min	Limiting speed
$n_{\vartheta r}$	1.180 1/min	Reference speed
≈m	7,895 kg	Weight

Mounting dimensions

$d_{a\ min}$	269 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	311 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2 mm	Maximum recess radius

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	303,2 mm	Bore diameter outer ring
d_s	3,2 mm	Diameter lubrication hole
n_s	6,5 mm	Width of lubricating groove

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	200 °C	Operating temperature max.

Calculation factors

e	0,12	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	5,72	Dynamic axial load factor
Y_2	8,51	Dynamic axial load factor
Y_0	5,59	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