View product details on medias

22.05.2026, 17:57:04 UTC

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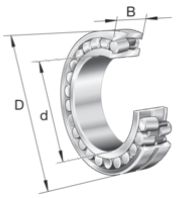


FAG

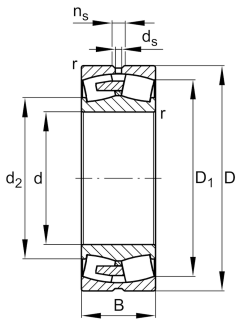
22352-BEA-XL-MB1

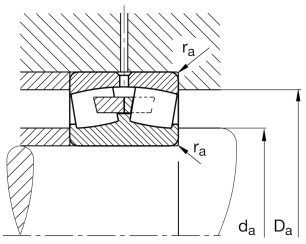
Spherical Roller Bearing

Spherical roller bearing 223..-BEA-XL-MB1,
symmetric 2 outer ribs with rib washer

X-life

Technical information





Your current product variant

Design	BEA	With lose center lip ring
Bore type	Z	Cylindrical
Cage	MB1	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication	Standard	

Main Dimensions & Performance Data

d	260 mm	Bore diameter
D	540 mm	Outside diameter
B	165 mm	Width
C_r	3.650.000 N	Basic dynamic load rating, radial
C_{0r}	4.650.000 N	Basic static load rating, radial
C_{ur}	360.000 N	Fatigue load limit, radial
n_G	1.390 1/min	Limiting speed
$n_{\vartheta r}$	740 1/min	Reference speed
≈m	181,08 kg	Weight

Mounting dimensions

$d_{a\ min}$	286 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	514 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	5 mm	Maximum recess radius

Dimensions

r_{min}	6 mm	Minimum chamfer dimension
D_1	460,6 mm	Bore diameter outer ring
d_s	12,5 mm	Diameter lubrication hole
n_s	23,5 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,31	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2,15	Dynamic axial load factor
Y_2	3,2	Dynamic axial load factor
Y_0	2,1	Static axial load factor

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