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22.04.2026, 13:52:03 UTC

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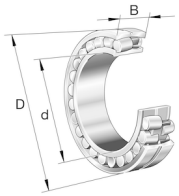


FAG

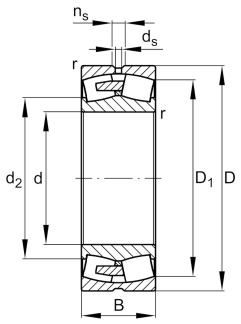
241/560-BEA-XL-MB1

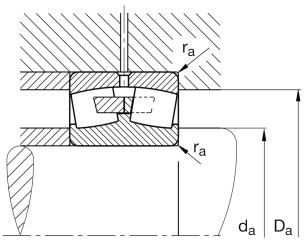
Spherical Roller Bearing

Spherical roller bearings 241..-BEA, main dimensions to DIN 635-2

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 facility	Standard	

Main Dimensions & Performance Data

d	560 mm	Bore diameter
D	920 mm	Outside diameter
B	355 mm	Width
C_r	12.000.000 N	Basic dynamic load rating, radial
C_{0r}	21.000.000 N	Basic static load rating, radial
C_{ur}	1.440.000 N	Fatigue load limit, radial
n_G	530 1/min	Limiting speed
$n_{\vartheta r}$	177 1/min	Reference speed
≈m	917,5 kg	Weight

Mounting dimensions

$d_{a\,min}$	592 mm	Minimum diameter shaft shoulder
$D_{a\,max}$	888 mm	Maximum diameter of housing shoulder
$r_{a\,max}$	6 mm	Maximum recess radius

The data sheet only contains an overview of the technical data of the selected product. Please refer to the additional documentation for this product. For further information, please use the following link on our website: Contact form

Dimensions

r_{min}	7,5 mm	Minimum chamfer dimension
D_1	791,5 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	0,37	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	1,83	Dynamic axial load factor
Y_2	2,72	Dynamic axial load factor
Y_0	1,79	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

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