

FAG

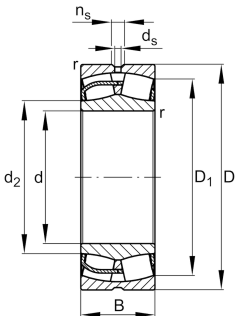
23052-BE-XL

Spherical Roller Bearing

Spherical roller bearings 230...-E1, main dimensions to DIN 635-2

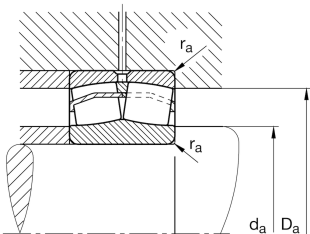
X-life

Technical information



Your current product variant

Design	BE	with lose center lip ring
Bore type	Z	Cylindrical
Cage	JPB	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	



Main Dimensions & Performance Data

d	260 mm	Bore diameter
D	400 mm	Outside diameter
B	104 mm	Width
C _r	1,670,000 N	Basic dynamic load rating, radial
C _{0r}	2,600,000 N	Basic static load rating, radial
C _{ur}	239,000 N	Fatigue load limit, radial
n _G	1,850 1/min	Limiting speed
n _{gr}	1,170 1/min	Reference speed
≈m	46.605 kg	Weight



Mounting dimensions

d _{a min}	274.6 mm	Minimum diameter shaft shoulder
D _{a max}	385.4 mm	Maximum diameter of housing shoulder
r _{a max}	3 mm	Maximum recess radius

Dimensions

r _{min}	4 mm	Minimum chamfer dimension
D ₁	358.7 mm	Bore diameter outer ring
d ₂	295.5 mm	Raceway diameter of the inner 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	0.23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2.9	Dynamic axial load factor
Y ₂	4.31	Dynamic axial load factor
Y ₀	2.83	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