



FAG

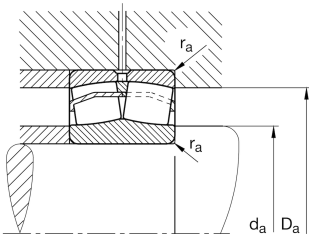
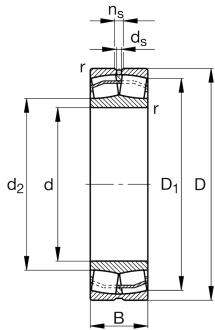
X-life

22319-E1-XL

Spherical Roller Bearing

Spherical roller bearings 223...-E1, main dimensions to DIN 635-2

Technical information



Your current product variant

Design	E1	without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	95 mm	Bore diameter
D	200 mm	Outside diameter
B	67 mm	Width
C _r	670,000 N	Basic dynamic load rating, radial
C _{0r}	700,000 N	Basic static load rating, radial
C _{ur}	61,000 N	Fatigue load limit, radial
n _G	3,700 1/min	Limiting speed
n _{gr}	2,800 1/min	Reference speed
≈m	9.883 kg	Weight



Mounting dimensions

d _{a min}	109 mm	Minimum diameter shaft shoulder
D _{a max}	186 mm	Maximum diameter of housing shoulder
r _{a max}	2.5 mm	Maximum recess radius

Dimensions

r _{min}	3 mm	Minimum chamfer dimension
D ₁	171.2 mm	Bore diameter outer ring
d ₂	116 mm	Raceway diameter of the inner ring
d _s	6.3 mm	Diameter lubrication hole
n _s	12.2 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0.33	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2.03	Dynamic axial load factor
Y ₂	3.02	Dynamic axial load factor
Y ₀	1.98	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