

FAG

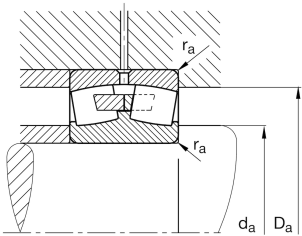
22218-E1A-XL-M [🔗](#)

Spherical Roller Bearing

Spherical roller bearing 222...-E1A-XL-M,
symmetric 2 outer ribs

X-life

Technical information



Your current product variant

Design	E1A	without central rip
Bore type	Z	Cylindrical
Cage	M	Brass Cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	40 mm	Width
C _r	345,000 N	Basic dynamic load rating, radial
C _{0r}	375,000 N	Basic static load rating, radial
C _{ur}	43,500 N	Fatigue load limit, radial
n _G	5,200 1/min	Limiting speed
n _{gr}	3,400 1/min	Reference speed
≈m	3.335 kg	Weight

Mounting dimensions

d _{a min}	101 mm	Minimum diameter shaft shoulder
D _{a max}	149 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum recess radius



Dimensions

r _{min}	2 mm	Minimum chamfer dimension
D ₁	143.9 mm	Bore diameter outer ring
d ₂	106.1 mm	Raceway diameter of the inner 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	0.23	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
-  Static angular error and misalignment