

FAG

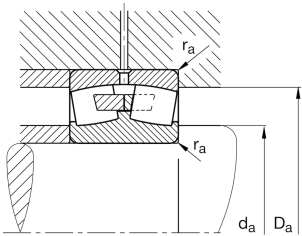
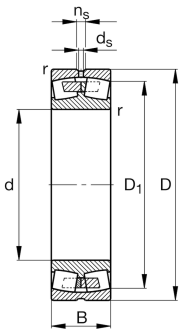
22320-E1A-XL-M [🔗](#)

Spherical Roller Bearing

Spherical roller bearing 223...-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	100 mm	Bore diameter
D	215 mm	Outside diameter
B	73 mm	Width
C _r	810,000 N	Basic dynamic load rating, radial
C _{0r}	920,000 N	Basic static load rating, radial
C _{ur}	77,000 N	Fatigue load limit, radial
n _G	3,300 1/min	Limiting speed
n _{gr}	2,380 1/min	Reference speed
≈m	13.018 kg	Weight

Mounting dimensions

d _{a min}	114 mm	Minimum diameter shaft shoulder
D _{a max}	201 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	184.7 mm	Bore diameter outer ring
d ₂	130.2 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