

FAG

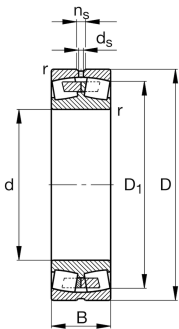
22314-E1A-XL-M-C3

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	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	51 mm	Width
C _r	390,000 N	Basic dynamic load rating, radial
C _{0r}	390,000 N	Basic static load rating, radial
C _{ur}	37,500 N	Fatigue load limit, radial
n _G	4,800 1/min	Limiting speed
n _{gr}	3,700 1/min	Reference speed
≈m	4.266 kg	Weight

Mounting dimensions

d _{a min}	82 mm	Minimum diameter shaft shoulder
D _{a max}	138 mm	Maximum diameter of housing shoulder
r _{a max}	2.1 mm	Maximum recess radius



Dimensions

r _{min}	2.1 mm	Minimum chamfer dimension
D ₁	128 mm	Bore diameter outer ring
d ₂	86.7 mm	Raceway diameter of the inner ring
d _s	4.8 mm	Diameter lubrication hole
n _s	9.5 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0.34	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2	Dynamic axial load factor
Y ₂	2.98	Dynamic axial load factor
Y ₀	1.96	Static axial load factor