

FAG

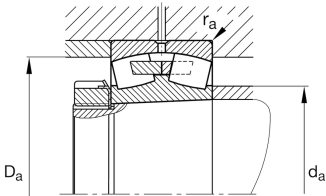
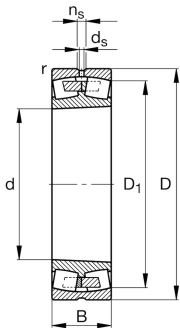
23220-E1A-XL-K-M

Spherical Roller Bearing

Spherical roller bearings 232...-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information



Your current product variant

Design	E1A	without central rip
Bore type	K	Tapered, taper 1:12
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	180 mm	Outside diameter
B	60.3 mm	Width
C _r	560,000 N	Basic dynamic load rating, radial
C _{0r}	660,000 N	Basic static load rating, radial
C _{ur}	61,000 N	Fatigue load limit, radial
n _G	3,750 1/min	Limiting speed
n _{gr}	2,410 1/min	Reference speed
≈m	6.39 kg	Weight



Mounting dimensions

d _{a min}	112 mm	Minimum diameter shaft shoulder
D _{a max}	168 mm	Maximum diameter of housing shoulder
r _{a max}	2.1 mm	Maximum recess radius
d _{a max}	120 mm	Maximum diameter of shaft shoulder
d _{b min}	110 mm	Minimum cavity diameter of the sleeve
B _{a min}	19 mm	Minimum cavity width of the sleeve

Dimensions

r _{min}	2.1 mm	Minimum chamfer dimension
D ₁	156.7 mm	Bore diameter outer 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	0.31	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2.15	Dynamic axial load factor
Y ₂	3.2	Dynamic axial load factor
Y ₀	2.1	Static axial load factor

Additional information

H2320	Adapter sleeve
AHX3220	Withdrawal sleeve



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