



FAG

23120-E1A-XL-K-M-C4

Spherical Roller Bearing

Spherical roller bearings 231...-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Design	E1A	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	M	Brass Cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication feature	Standard	
Special material	Standard	

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	165 mm	Outside diameter
B	52 mm	Width
C _r	450.000 N	Basic dynamic load rating, radial
C _{0r}	570.000 N	Basic static load rating, radial
C _{ur}	54.000 N	Fatigue load limit, radial
n _G	4.000 1/min	Limiting speed
n _{gr}	2.750 1/min	Reference speed

≈m	4,258 kg	Masa
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Mounting dimensions

d _{a min}	111 mm	Minimum diameter shaft shoulder
D _{a max}	154 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum recess radius
d _{a max}	115 mm	Maximum diameter of shaft shoulder
d _{b min}	107 mm	Minimum cavity diameter of the sleeve
B _{a min}	7 mm	Minimum cavity width of the sleeve

Dimensions

r _{min}	2 mm	Minimum chamfer dimension
D ₁	146,3 mm	Bore diameter outer 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	0,28	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,37	Dynamic axial load factor
Y ₂	3,53	Dynamic axial load factor
Y ₀	2,32	Static axial load factor

Additional information

H3120	Adapter sleeve
AHX3120	Withdrawal sleeve



Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia
-  Nieosiowość statyczna
-  Nieosiowość dynamiczna