





FAG

23120-E1-XL-K-TVPB

Spherical Roller Bearing

Spherical roller bearings 231...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	TVPB	Plastic cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	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	4,055 kg	Masa



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
B _{a min}	7 mm	Minimum cavity width of the sleeve
d _{a max}	113 mm	Maximum diameter of shaft shoulder
d _{b min}	107 mm	Minimum cavity diameter of the sleeve

Dimensions

r _{min}	2 mm	Minimum chamfer dimension
D ₁	146,3 mm	Bore diameter outer ring
d ₂	113,9 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}	120 °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