

FAG

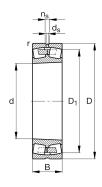
22220-E1A-XL-K-M-C3 ☑

Spherical Roller Bearing

Spherical roller bearing 222..-E1A-XL-K-M, symmetric 2 outer ribs

X-life

Technical information



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Your current product variant

Design	E1A	without central rip
Bore type	К	Tapered, taper 1:12
Cage	М	Brass Cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	180 mm	Outside diameter
В	46 mm	Width
C _r	430,000 N	Basic dynamic load rating, radial
C _{Or}	475,000 N	Basic static load rating, radial
C ur	53,000 N	Fatigue load limit, radial
n G	4,550 1/min	Limiting speed
n _{ðr}	3,150 1/min	Reference speed
≈m	4.939 ka	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	118 mm	Maximum diameter of shaft shoulder
d _{b min}	108 mm	Minimum cavity diameter of the sleeve
B a min	8 mm	Minimum cavity width of the sleeve

Dimensions

r min	2.1 mm	Minimum chamfer dimension
D 1	161.4 mm	Bore diameter outer ring
d 2	119 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

е	0.24	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y 1	2.84	Dynamic axial load factor
Y 2	4.23	Dynamic axial load factor
Υ ₀	2.78	Static axial load factor

Additional information

H320	Adapter sleeve
AHX320	Withdrawal sleeve



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Dynamic angular error and misalignment