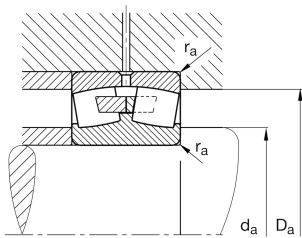
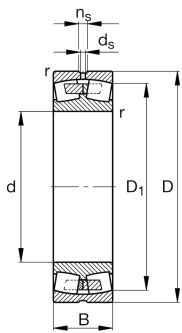
**FAG****22220-E1A-XL-M**

Spherical Roller Bearing

Spherical roller bearing 222...-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	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	46 mm	Width
C _r	430,000 N	Basic dynamic load rating, radial
C _{0r}	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 _{gr}	3,150 1/min	Reference speed
≈m	4.931 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



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

e	0.24	Limiting value of F_a/F_r 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
Y_0	2.78	Static axial load factor

Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Static angular error and misalignment