



FAG

22319-E1-XL>A

Spherical Roller Bearing

Spherical roller bearings 223...-E1, main dimensions to DIN 635-2

X-life

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	



Main Dimensions & Performance Data

d	95 mm	Bore diameter
D	200 mm	Outside diameter
B	67 mm	Width
C_r	670.000 N	Basic dynamic load rating, radial
C_{0r}	700.000 N	Basic static load rating, radial
C_{ur}	61.000 N	Fatigue load limit, radial
n_G	3.700 1/min	Limiting speed
n_{gr}	2.800 1/min	Reference speed
$\approx m$	9,912 kg	Weight



Mounting dimensions

$d_{a \min}$	109 mm	Minimum diameter shaft shoulder
$D_{a \max}$	186 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius

Dimensions

r_{\min}	3 mm	Minimum chamfer dimension
D_1	171,2 mm	Bore diameter outer ring
d_2	116 mm	Raceway diameter of the inner ring
d_s	6,3 mm	Diameter lubrication hole
n_s	12,2 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.

Calculation factors

e	0,33	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,03	Dynamic axial load factor
Y_2	3,02	Dynamic axial load factor
Y_0	1,98	Static axial load factor



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