

FAG

**22319-E1-XL**

## Spherical Roller Bearing

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

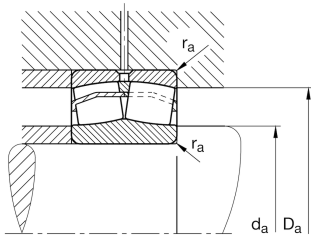
X-life

## 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 &amp; 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
$m$	9,883 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

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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