

**FAG****22236-E1-XL-C2**

Spherical Roller Bearing

Spherical roller bearings 222...-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	C2 (Group 2)	Internal clearance smaller than CN
Relubrication facility	Standard	

**Main Dimensions & Performance Data**

d	180 mm	Bore diameter
D	320 mm	Outside diameter
B	86 mm	Width
$C_r$	1.360.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.680.000 N	Basic static load rating, radial
$C_{ur}$	153.000 N	Fatigue load limit, radial
$n_G$	2.470 1/min	Limiting speed
$n_{gr}$	1.670 1/min	Reference speed
$\approx m$	29,2 kg	Weight

**Mounting dimensions**

$d_{a \min}$	197 mm	Minimum diameter shaft shoulder
$D_{a \max}$	303 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius



## Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
$D_1$	285,9 mm	Bore diameter outer ring
$d_2$	211,3 mm	Raceway diameter of the inner ring
$d_s$	9,5 mm	Diameter lubrication hole
$n_s$	17,7 mm	Width of lubricating groove

## Temperature range

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

## Calculation factors

$e$	0,25	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,71	Dynamic axial load factor
$Y_2$	4,04	Dynamic axial load factor
$Y_0$	2,65	Static axial load factor

## Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment