

**FAG****22228-E1-XL-C3>A**

## 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	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

**Main Dimensions & Performance Data**

d	140 mm	Bore diameter
D	250 mm	Outside diameter
B	68 mm	Width
$C_r$	870.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.040.000 N	Basic static load rating, radial
$C_{ur}$	100.000 N	Fatigue load limit, radial
$n_G$	3.150 1/min	Limiting speed
$n_{gr}$	2.250 1/min	Reference speed
$\approx m$	14,09 kg	Weight

**Mounting dimensions**

$d_{a \min}$	154 mm	Minimum diameter shaft shoulder
$D_{a \max}$	236 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius



## Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
$D_1$	223,1 mm	Bore diameter outer ring
$d_2$	164,9 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

$e$	0,25	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,67	Dynamic axial load factor
$Y_2$	3,97	Dynamic axial load factor
$Y_0$	2,61	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