



FAG

**22222-E1-XL>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	CN (Group N)	Normal internal clearance
Relubrication	Standard	

## Main Dimensions &amp; Performance Data

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	53 mm	Width
$C_r$	550.000 N	Basic dynamic load rating, radial
$C_{0r}$	600.000 N	Basic static load rating, radial
$C_{ur}$	64.000 N	Fatigue load limit, radial
$n_G$	4.100 1/min	Limiting speed
$n_{gr}$	3.000 1/min	Reference speed
$\approx m$	7,066 kg	Weight

## Mounting dimensions

$d_{a \min}$	122 mm	Minimum diameter shaft shoulder
$D_{a \max}$	188 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius



## Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	178,7 mm	Bore diameter outer ring
$d_2$	129,4 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

$e$	0,25	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



Static angular error and misalignment



Dynamic angular error and misalignment