



FAG

**23222-E1A-XL-M**

Spherical Roller Bearing

Spherical roller bearings 232...-E1A, main dimensions to DIN 635-2

X-life

## Technical information



## Your current product variant

Design	E1A	Without central rip
Bore type	Z	Cylindrical
Cage	M	Brass Cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	69.8 mm	Width
$C_r$	710,000 N	Basic dynamic load rating, radial
$C_{0r}$	870,000 N	Basic static load rating, radial
$C_{ur}$	73,000 N	Fatigue load limit, radial
$n_G$	3,250 1/min	Limiting speed
$n_{gr}$	2,100 1/min	Reference speed
$\approx m$	9.556 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
$D_1$	172.7 mm	Bore diameter outer 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

$e$	0.33	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2.06	Dynamic axial load factor
$Y_2$	3.06	Dynamic axial load factor
$Y_0$	2.01	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