



FAG

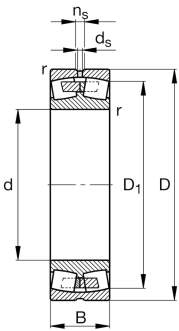
**23130-E1A-XL-M-C4**

Spherical Roller Bearing

Spherical roller bearings 231...-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	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	150 mm	Bore diameter
D	250 mm	Outside diameter
B	80 mm	Width
$C_r$	1.000.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.330.000 N	Basic static load rating, radial
$C_{ur}$	145.000 N	Fatigue load limit, radial
$n_G$	2.650 1/min	Limiting speed
$n_{gr}$	1.720 1/min	Reference speed
$\approx m$	15,567 kg	Weight

## Mounting dimensions

$d_{a \min}$	162 mm	Minimum diameter shaft shoulder
$D_{a \max}$	238 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius



## Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	220,8 mm	Bore diameter outer 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

$e$	0,29	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,32	Dynamic axial load factor
$Y_2$	3,45	Dynamic axial load factor
$Y_0$	2,26	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