



FAG

**22310-E1-XL-K-C4**

## Spherical Roller Bearing

Spherical roller bearings 223...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

## Technical information



## Your current product variant

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	JPA	Sheet metal cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication	Standard	

## Main Dimensions &amp; Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
$C_r$	229.000 N	Basic dynamic load rating, radial
$C_{0r}$	223.000 N	Basic static load rating, radial
$C_{ur}$	20.700 N	Fatigue load limit, radial
$n_G$	6.300 1/min	Limiting speed
$n_{gr}$	4.800 1/min	Reference speed
$\approx m$	1,801 kg	Weight



### Mounting dimensions

$d_{a \min}$	61 mm	Minimum diameter shaft shoulder
$d_{a \max}$	63 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	99 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius
$d_{b \min}$	56 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve

### Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$D_1$	92,6 mm	Bore diameter outer ring
$d_2$	63 mm	Raceway diameter of the inner ring
$d_s$	3,2 mm	Diameter lubrication hole
$n_s$	6,5 mm	Width of lubricating groove

### Temperature range

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

### Calculation factors

$e$	0,36	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,86	Dynamic axial load factor
$Y_2$	2,77	Dynamic axial load factor
$Y_0$	1,82	Static axial load factor

### Additional information

H2310	Adapter sleeve
AHX2310	Withdrawal sleeve



### Characteristics

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-  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