



FAG

**22240-BE-XL-K**

## Spherical Roller Bearing

Spherical roller bearings 222...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

## Technical information



## Your current product variant

Design	BE	With lose center lip ring
Bore type	K	Tapered, taper 1:12
Cage	JPB	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication	Standard	

## Main Dimensions &amp; Performance Data

d	200 mm	Bore diameter
D	360 mm	Outside diameter
B	98 mm	Width
$C_r$	1.520.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.990.000 N	Basic static load rating, radial
$C_{ur}$	180.000 N	Fatigue load limit, radial
$n_G$	2.330 1/min	Limiting speed
$n_{gr}$	1.510 1/min	Reference speed
$\approx m$	41,735 kg	Weight



### Mounting dimensions

$d_{a \min}$	217 mm	Minimum diameter shaft shoulder
$d_{a \max}$	234 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	343 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius
$d_{b \min}$	212 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	24 mm	Minimum cavity width of the sleeve

### Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
$D_1$	310,9 mm	Bore diameter outer ring
$d_2$	238,2 mm	Raceway diameter of the inner ring
$d_s$	9,5 mm	Diameter lubrication hole
$n_s$	17,7 mm	Width of lubricating groove

### Temperature range

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

### Calculation factors

$e$	0,26	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,57	Dynamic axial load factor
$Y_2$	3,83	Dynamic axial load factor
$Y_0$	2,52	Static axial load factor

### Additional information

H3140	Adapter sleeve
AH2240	Withdrawal sleeve



### Characteristics

---



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment