



FAG

**24122-BE-XL-K30-C3**

## Spherical Roller Bearing

Spherical roller bearings 241...-BE-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

X-life

## Technical information



## Your current product variant

Design	BE	With lose center lip ring
Bore type	K30	Tapered, taper 1:30
Cage	JPB	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	110 mm	Bore diameter
D	180 mm	Outside diameter
B	69 mm	Width
C <sub>r</sub>	530.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	750.000 N	Basic static load rating, radial
C <sub>ur</sub>	86.000 N	Fatigue load limit, radial
n <sub>G</sub>	3.350 1/min	Limiting speed
n <sub>gr</sub>	1.960 1/min	Reference speed
m	6,613 kg	Weight



### Mounting dimensions

$d_{a \min}$	121 mm	Minimum diameter shaft shoulder
$D_{a \max}$	169 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius

### Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$D_1$	154,9 mm	Bore diameter outer ring
$d_2$	125,6 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

$e$	0,34	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,96	Dynamic axial load factor
$Y_2$	2,92	Dynamic axial load factor
$Y_0$	1,92	Static axial load factor

### Additional information

AH24122	Withdrawal sleeve
---------	-------------------



### 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