



FAG

**24024-BE-XL-K30-C4**

## Spherical Roller Bearing

Spherical roller bearings 240..-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	C4 (Group 4)	Internal clearance larger than C3
Relubrication	Standard	

## Main Dimensions &amp; Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	60 mm	Width
$C_r$	450.000 N	Basic dynamic load rating, radial
$C_{0r}$	690.000 N	Basic static load rating, radial
$C_{ur}$	86.000 N	Fatigue load limit, radial
$n_G$	3.450 1/min	Limiting speed
$n_{gr}$	2.360 1/min	Reference speed
$\approx m$	5,168 kg	Weight



### Mounting dimensions

$d_{a \min}$	128,8 mm	Minimum diameter shaft shoulder
$D_{a \max}$	171,2 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius

### Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$D_1$	159,8 mm	Bore diameter outer ring
$d_2$	134,5 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

$e$	0,29	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,33	Dynamic axial load factor
$Y_2$	3,47	Dynamic axial load factor
$Y_0$	2,28	Static axial load factor

### Additional information

AH24024

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