



FAG

**24180-BE-XL-K30**

## 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	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	400 mm	Bore diameter
D	650 mm	Outside diameter
B	250 mm	Width
$C_r$	6.200.000 N	Basic dynamic load rating, radial
$C_{0r}$	10.600.000 N	Basic static load rating, radial
$C_{ur}$	790.000 N	Fatigue load limit, radial
$n_G$	800 1/min	Limiting speed
$n_{gr}$	300 1/min	Reference speed
$\approx m$	313 kg	Weight



### Mounting dimensions

$d_{a \min}$	426 mm	Minimum diameter shaft shoulder
$D_{a \max}$	624 mm	Maximum diameter of housing shoulder
$r_{a \max}$	5 mm	Maximum recess radius

### Dimensions

$r_{\min}$	6 mm	Minimum chamfer dimension
$D_1$	556,5 mm	Bore diameter outer ring
$d_2$	448,8 mm	Raceway diameter of the inner ring
$d_s$	12,5 mm	Diameter lubrication hole
$n_s$	23,5 mm	Width of lubricating groove

### Temperature range

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

### Calculation factors

$e$	0,37	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,82	Dynamic axial load factor
$Y_2$	2,7	Dynamic axial load factor
$Y_0$	1,78	Static axial load factor

### Additional information

AH24180-H

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
-  Large bearing
-  Static angular error and misalignment
-  Dynamic angular error and misalignment