



FAG

**24140-BE-XL-K30-C4**

## 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	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	200 mm	Bore diameter
D	340 mm	Outside diameter
B	140 mm	Width
$C_r$	1.880.000 N	Basic dynamic load rating, radial
$C_{0r}$	2.800.000 N	Basic static load rating, radial
$C_{ur}$	260.000 N	Fatigue load limit, radial
$n_G$	1.780 1/min	Limiting speed
$n_{gr}$	840 1/min	Reference speed
$\approx m$	49,85 kg	Weight



### Mounting dimensions

$d_{a \min}$	214 mm	Minimum diameter shaft shoulder
$D_{a \max}$	326 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius

### Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
$D_1$	287,9 mm	Bore diameter outer ring
$d_2$	227,1 mm	Raceway diameter of the inner ring
$d_s$	6,3 mm	Diameter lubrication hole
$n_s$	12,2 mm	Width of lubricating groove

### Temperature range

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

### Calculation factors

$e$	0,39	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,71	Dynamic axial load factor
$Y_2$	2,54	Dynamic axial load factor
$Y_0$	1,67	Static axial load factor

### Additional information

AH24140	Withdrawal sleeve
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### 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