



FAG

**23140-BE-XL-K>A**

## Spherical Roller Bearing

Spherical roller bearings 231...-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
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	200 mm	Bore diameter
D	340 mm	Outside diameter
B	112 mm	Width
C <sub>r</sub>	1.610.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	2.270.000 N	Basic static load rating, radial
C <sub>ur</sub>	193.000 N	Fatigue load limit, radial
n <sub>G</sub>	2.040 1/min	Limiting speed
n <sub>gr</sub>	1.230 1/min	Reference speed
m	39,16 kg	Weight



### Mounting dimensions

$d_{a \min}$	214 mm	Minimum diameter shaft shoulder
$d_{a \max}$	231 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	326 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius
$d_{b \min}$	212 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	10 mm	Minimum cavity width of the sleeve

### Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
$D_1$	295,8 mm	Bore diameter outer ring
$d_2$	230,4 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

$e$	0,32	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,1	Dynamic axial load factor
$Y_2$	3,13	Dynamic axial load factor
$Y_0$	2,06	Static axial load factor

### Additional information

H3140	Adapter sleeve
AH3140	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