



FAG

**24034-BE-XL**

Spherical Roller Bearing

Spherical roller bearing 240..-BE-XL,  
symmetric with rib washer

X-life

## Technical information



## Your current product variant

Design	BE	With lose center lip ring
Bore type	Z	Cylindrical
Cage	JPB	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	170 mm	Bore diameter
D	260 mm	Outside diameter
B	90 mm	Width
$C_r$	940.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.480.000 N	Basic static load rating, radial
$C_{ur}$	162.000 N	Fatigue load limit, radial
$n_G$	2.380 1/min	Limiting speed
$n_{gr}$	1.540 1/min	Reference speed
$m$	16,968 kg	Weight



### Mounting dimensions

$d_{a \min}$	180,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	249,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius

### Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	228,4 mm	Bore diameter outer ring
$d_2$	190 mm	Raceway diameter of the inner ring
$d_s$	4,8 mm	Diameter lubrication hole
$n_s$	9,5 mm	Width of lubricating groove

### Temperature range

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

### Calculation factors

$e$	0,31	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,2	Dynamic axial load factor
$Y_2$	3,27	Dynamic axial load factor
$Y_0$	2,15	Static axial load factor



### 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