



FAG

**24024-BE-XL-2VSR-C3**

## Spherical Roller Bearing

Sealed spherical roller bearings 240..-  
BE-2VSR, lip seals on both sides, for  
continuous casting machines

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	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	
Type of Seal	2VSR	Seals on both sides, high temperature

## 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
$n_G$	860 1/min	Limiting speed
$\approx m$	5,3 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
$D_1$	170,5 mm	Bore diameter outer ring
$d_2$	131 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.
$T_{\max}$	180 °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



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides



Static angular error and misalignment



Dynamic angular error and misalignment