



FAG

24024-BE-XL-2VSR-H40-C4

Spherical Roller Bearing

Spherical roller bearing 240..-BE-XL-2VSR-H40, 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	C4 (Group 4)	Internal clearance larger than C3
Relubrication	H40	Without lubricating groove and holes
Type of Seal	2VSR	Seals on both sides, high temperature

Main Dimensions & 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








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

	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