



FAG

24140-BE-XL-C4

Spherical Roller Bearing

Spherical roller bearing 241...-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	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	Standard	



Main Dimensions & 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
$\approx m$	50,45 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



Characteristics

-  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