

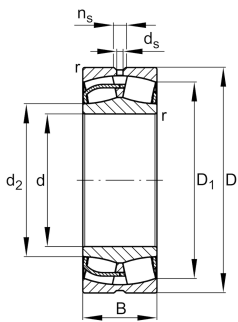
**FAG****23148-BE-XL-C3**

Spherical Roller Bearing

Spherical roller bearing 231...-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	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & Performance Data

d	240 mm	Bore diameter
D	400 mm	Outside diameter
B	128 mm	Width
C_r	2.130.000 N	Basic dynamic load rating, radial
C_{0r}	3.150.000 N	Basic static load rating, radial
C_{ur}	255.000 N	Fatigue load limit, radial
n_G	1.700 1/min	Limiting speed
n_{gr}	970 1/min	Reference speed
$\approx m$	62,245 kg	Weight

Mounting dimensions

$d_{a \min}$	257 mm	Minimum diameter shaft shoulder
$D_{a \max}$	383 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius



Dimensions

r _{min}	4 mm	Minimum chamfer dimension
D ₁	349,9 mm	Bore diameter outer ring
d ₂	275,9 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	0,31	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,18	Dynamic axial load factor
Y ₂	3,24	Dynamic axial load factor
Y ₀	2,13	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