

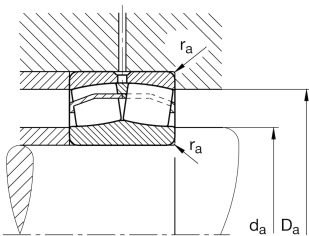
**FAG****22330-E1-XL**

Spherical Roller Bearing

Spherical roller bearings 223...-E1, main dimensions to DIN 635-2

X-life

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	150 mm	Bore diameter
D	320 mm	Outside diameter
B	108 mm	Width
C_r	1.640.000 N	Basic dynamic load rating, radial
C_{0r}	1.850.000 N	Basic static load rating, radial
C_{ur}	151.000 N	Fatigue load limit, radial
n_G	2.290 1/min	Limiting speed
n_{gr}	1.520 1/min	Reference speed
$\approx m$	41,335 kg	Weight

Mounting dimensions

$d_{a \min}$	167 mm	Minimum diameter shaft shoulder
$D_{a \max}$	303 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius



Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
D_1	273,2 mm	Bore diameter outer ring
d_2	185,3 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	0,33	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,02	Dynamic axial load factor
Y_2	3	Dynamic axial load factor
Y_0	1,97	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