

FAG

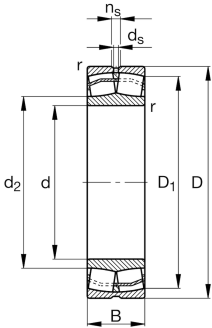
21314-E1-XL-C3

Spherical Roller Bearing

Spherical roller bearings 213...-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	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
C <sub>r</sub>	250,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	270,000 N	Basic static load rating, radial
C <sub>ur</sub>	34,500 N	Fatigue load limit, radial
n <sub>G</sub>	6,200 1/min	Limiting speed
n <sub>gr</sub>	3,950 1/min	Reference speed
≈m	3.06 kg	Weight



Mounting dimensions

d <sub>a min</sub>	82 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	138 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	2.1 mm	Maximum recess radius

Dimensions

r <sub>min</sub>	2.1 mm	Minimum chamfer dimension
D <sub>1</sub>	126.2 mm	Bore diameter outer ring
d <sub>2</sub>	94.9 mm	Raceway diameter of the inner ring
d <sub>s</sub>	3.2 mm	Diameter lubrication hole
n <sub>s</sub>	6.5 mm	Width of lubricating groove

Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.

Calculation factors

e	0.22	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	3.14	Dynamic axial load factor
Y <sub>2</sub>	4.67	Dynamic axial load factor
Y <sub>0</sub>	3.07	Static axial load factor



## Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment