

FAG

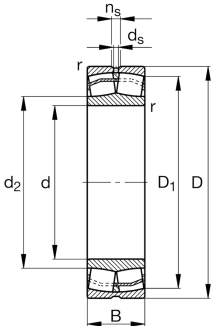
X-life

23218-E1-XL-TVPB

Spherical Roller Bearing

Spherical roller bearings 232...-E1, main dimensions to DIN 635-2

Technical information



Your current product variant

Design	E1	without central rip
Bore type	Z	Cylindrical
Cage	TVPB	Plastic cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	52.4 mm	Width
C <sub>r</sub>	445,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	520,000 N	Basic static load rating, radial
C <sub>ur</sub>	50,000 N	Fatigue load limit, radial
n <sub>G</sub>	4,250 1/min	Limiting speed
n <sub>gr</sub>	2,650 1/min	Reference speed
≈m	4.228 kg	Weight



Mounting dimensions

d <sub>a min</sub>	101 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	149 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	2 mm	Maximum recess radius

Dimensions

r <sub>min</sub>	2 mm	Minimum chamfer dimension
D <sub>1</sub>	140 mm	Bore diameter outer ring
d <sub>2</sub>	104.1 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>	120 °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 <sub>1</sub>	2.2	Dynamic axial load factor
Y <sub>2</sub>	3.27	Dynamic axial load factor
Y <sub>0</sub>	2.15	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