

### FAG

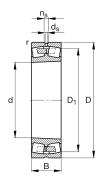
# 23138-E1A-XL-K-M □

Spherical Roller Bearing

Spherical roller bearings 231..-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12



## Technical information





# Your current product variant

Design	E1A	without central rip
Bore type	К	Tapered, taper 1:12
Cage	М	Brass Cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	
Special material	Standard	

#### **Main Dimensions & Performance Data**

d	190 mm	Bore diameter
D	320 mm	Outside diameter
В	104 mm	Width
Cr	1,610,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	2,220,000 N	Basic static load rating, radial
C ur	222,000 N	Fatigue load limit, radial
n G	2,070 1/min	Limiting speed
n <sub>9r</sub>	1,260 1/min	Reference speed
≈m	32.723 kg	Weight



# **Mounting dimensions**

d a min	204 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	306 mm	Maximum diameter of housing shoulder
<sup>r</sup> a max	2.5 mm	Maximum recess radius
d a max	216 mm	Maximum diameter of shaft shoulder
d <sub>b min</sub>	202 mm	Minimum cavity diameter of the sleeve
B a min	9 mm	Minimum cavity width of the sleeve

#### **Dimensions**

<sup>r</sup> min	3 mm	Minimum chamfer dimension
D 1	281.6 mm	Bore diameter outer ring
d <sub>S</sub>	8 mm	Diameter lubrication hole
n <sub>S</sub>	15 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**

е	0.3	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y 1	2.28	Dynamic axial load factor
Y 2	3.39	Dynamic axial load factor
Y 0	2.23	Static axial load factor

## **Additional information**

H313	38 A	Adapter sleeve
AH31	138G \	Nithdrawal sleeve



## **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