

#### FAG

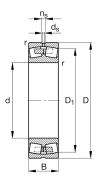
# 23220-E1A-XL-M-C3 [2]

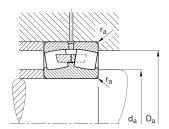
Spherical Roller Bearing

Spherical roller bearings 232..-E1A, main dimensions to DIN 635-2



## Technical information





# Your current product variant

Design	E1A	without central rip
Bore type	Z	Cylindrical
Cage	М	Brass Cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

## **Main Dimensions & Performance Data**

d	100 mm	Bore diameter
D	180 mm	Outside diameter
В	60.3 mm	Width
Cr	560,000 N	Basic dynamic load rating, radial
C <sub>Or</sub>	660,000 N	Basic static load rating, radial
C ur	61,000 N	Fatigue load limit, radial
n G	3,750 1/min	Limiting speed
n <sub>9r</sub>	2,410 1/min	Reference speed
≈m	6.595 kg	Weight

# **Mounting dimensions**

d a min	112 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	168 mm	Maximum diameter of housing shoulder
r a max	2.1 mm	Maximum recess radius



#### **Dimensions**

<sup>r</sup> min	2.1 mm	Minimum chamfer dimension
D 1	156.7 mm	Bore diameter outer ring
d <sub>S</sub>	4.8 mm	Diameter lubrication hole
n <sub>S</sub>	9.5 mm	Width of lubricating groove

## Temperature range

T min	-30 °C	Operating temperature min.
T max	200 °C	Operating temperature max.

#### **Calculation factors**

е	0.31	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	2.15	Dynamic axial load factor
Y 2	3.2	Dynamic axial load factor
Υ 0	2.1	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