

**FAG****51144-MP**

Axial deep groove ball bearing

Axial deep groove ball bearing 511...-MP,
single direction, solid brass cage

Technical information



Your current product variant

Cage	MP	Solid brass cage, rolling element guided
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S1	Rings dimensional stabilized up to 200°

Main Dimensions & Performance Data

d	220 mm	Inner diameter shaft washer
D	270 mm	Outer diameter housing washer
T	37 mm	Height
C _a	168,000 N	Basic dynamic load rating, axial
C _{0a}	730,000 N	Basic static load rating, axial
C _{ua}	21,300 N	Fatigue load limit, axial
n _G	1,870 1/min	Limiting speed
n _{gr}	1,600 1/min	Reference speed
m	4.508 kg	Weight

Mounting dimensions

d _{a min}	250 mm	Minimum diameter shaft shoulder
D _{a max}	240 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius



Dimensions

r_{min}	1.1 mm	Minimum chamfer dimension
D_1	223 mm	Inner diameter housing washer
d_1	267 mm	Outer diameter shaft washer

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	200 °C	Operating temperature max.

Calculation factors

A	3	Minimum load factor
---	---	---------------------

Characteristics

-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed