

**FAG****51411**

Axial deep groove ball bearing

Axial deep groove ball bearing 514, single direction, steel sheet metal cage

Technical information

**Your current product variant**

Cage	JP	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°

Main Dimensions & Performance Data

d	55 mm	Inner diameter shaft washer
D	120 mm	Outer diameter housing washer
T	48 mm	Height
C _a	167,000 N	Basic dynamic load rating, axial
C _{0a}	315,000 N	Basic static load rating, axial
C _{ua}	14,400 N	Fatigue load limit, axial
n _G	2,340 1/min	Limiting speed
n _{gr}	6,000 1/min	Reference speed
m	2.533 kg	Weight

Mounting dimensions

d _{a min}	94 mm	Minimum diameter shaft shoulder
D _{a max}	81 mm	Maximum diameter of housing shoulder
r _{a max}	1.5 mm	Maximum fillet radius



Dimensions

r_{\min}	1.5 mm	Minimum chamfer dimension
D_1	57 mm	Inner diameter housing washer
d_1	120 mm	Outer diameter shaft washer

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	150 °C	Operating temperature max.

Calculation factors

A	0.59	Minimum load factor
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Characteristics

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