

**FAG****53311** **Axial deep groove ball bearing**

Axial deep groove ball bearing 533, single direction, with spherical housing washer, 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	105 mm	Outer diameter housing washer
T	39.3 mm	Height
C _a	102,000 N	Basic dynamic load rating, axial
C _{0a}	207,000 N	Basic static load rating, axial
C _{ua}	9,500 N	Fatigue load limit, axial
n _G	3,200 1/min	Limiting speed
n _{gr}	6,000 1/min	Reference speed
≈m	1,346 kg	Weight

Mounting dimensions

d _{a min}	85 mm	Minimum diameter shaft shoulder
D _{a max}	80 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum filled radius



Dimensions

r_{\min}	1.1 mm	Minimum chamfer dimension
D_1	57 mm	Inner diameter housing washer
d_1	105 mm	Outer diameter shaft washer
R	80 mm	Radius spherical housing washer
A	30 mm	Distance of the center point
T_1	42 mm	Height with seat washer
D_2	80 mm	Bore diameter seat washer
D_3	110 mm	Outside diameter seat washer
C	11.5 mm	Height seat washer

Temperature range

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

Calculation factors

A	0.26	Minimum load factor
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Additional information

U311	Seat washer
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Characteristics

F_a	Axial load in one direction
	Grease Lubrication
	Oil Lubrication
	Not sealed
	Static angular error and misalignment