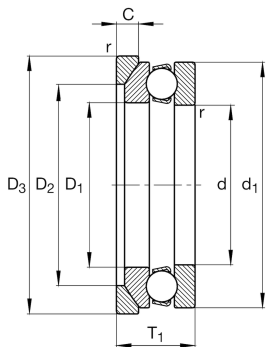


**FAG****53311**

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