

**FAG****53309**

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 &amp; Performance Data

d	45 mm	Inner diameter shaft washer
D	85 mm	Outer diameter housing washer
T	30,1 mm	Height
C <sub>a</sub>	75.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	140.000 N	Basic static load rating, axial
C <sub>ua</sub>	6.500 N	Fatigue load limit, axial
n <sub>G</sub>	3.800 1/min	Limiting speed
n <sub>gr</sub>	6.800 1/min	Reference speed
≈m	0,68 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	69 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	65 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1 mm	Maximum filled radius



## Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	47 mm	Inner diameter housing washer
$d_1$	85 mm	Outer diameter shaft washer
R	64 mm	Radius spherical housing washer
A	25 mm	Distance of the center point
$T_1$	33 mm	Height with seat washer
$D_2$	65 mm	Bore diameter seat washer
$D_3$	90 mm	Outside diameter seat washer
C	10 mm	Height seat washer

## Temperature range

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

## Calculation factors

A	0,12	Minimum load factor
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## Additional information

U309	Seat washer
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## Characteristics

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