

**FAG****53316** **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	80 mm	Inner diameter shaft washer
D	140 mm	Outer diameter housing washer
T	47.6 mm	Height
$C_a$	160,000 N	Basic dynamic load rating, axial
$C_{0a}$	360,000 N	Basic static load rating, axial
$C_{ua}$	15,500 N	Fatigue load limit, axial
$n_G$	2,460 1/min	Limiting speed
$n_{gr}$	4,450 1/min	Reference speed
$\approx m$	2.756 kg	Weight

**Mounting dimensions**

$d_{a \min}$	116 mm	Minimum diameter shaft shoulder
$D_{a \max}$	110 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1.5 mm	Maximum filled radius



## Dimensions

$r_{\min}$	1.5 mm	Minimum chamfer dimension
$D_1$	82 mm	Inner diameter housing washer
$d_1$	140 mm	Outer diameter shaft washer
R	112 mm	Radius spherical housing washer
A	50 mm	Distance of the center point
$T_1$	52 mm	Height with seat washer
$D_2$	110 mm	Bore diameter seat washer
$D_3$	145 mm	Outside diameter seat washer
C	15 mm	Height seat washer

## Temperature range

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

## Calculation factors

A	0.79	Minimum load factor
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## Additional information

U316

Seat washer

## Characteristics

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