

**FAG****51120**

Axial deep groove ball bearing

Axial deep groove ball bearing 511, single direction, steel sheet metal cage

## Technical information



## Your current product variant

Cage	JP	Steel sheet metal
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°

## Main Dimensions &amp; Performance Data

d	100 mm	Inner diameter shaft washer
D	135 mm	Outer diameter housing washer
T	25 mm	Height
C <sub>a</sub>	85.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	270.000 N	Basic static load rating, axial
C <sub>ua</sub>	11.300 N	Fatigue load limit, axial
n <sub>G</sub>	3.500 1/min	Limiting speed
n <sub>gr</sub>	3.100 1/min	Reference speed
m	0,992 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	121 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	114 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1 mm	Maximum fillet radius



### Dimensions

$r_{min}$	1 mm	Minimum chamfer dimension
$D_1$	102 mm	Inner diameter housing washer
$d_1$	135 mm	Outer diameter shaft washer

### Temperature range

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

### Calculation factors

A	0,36	Minimum load factor
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### Characteristics

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