

**FAG****51118**

## 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	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°

## Main Dimensions &amp; Performance Data

d	90 mm	Inner diameter shaft washer
D	120 mm	Outer diameter housing washer
T	22 mm	Height
$C_a$	45,500 N	Basic dynamic load rating, axial
$C_{0a}$	140,000 N	Basic static load rating, axial
$C_{ua}$	6,300 N	Fatigue load limit, axial
$n_G$	4,300 1/min	Limiting speed
$n_{gr}$	3,500 1/min	Reference speed
$\approx m$	0.65 kg	Weight

## Mounting dimensions

$d_{a \min}$	108 mm	Minimum diameter shaft shoulder
$D_{a \max}$	102 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius



### Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	92 mm	Inner diameter housing washer
$d_1$	120 mm	Outer diameter shaft washer

### Temperature range

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

### Calculation factors

A	0.13	Minimum load factor
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### Characteristics

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