

**FAG****51410**

Axial deep groove ball bearing

Axial deep groove ball bearing 514, 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 & Performance Data**

d	50 mm	Inner diameter shaft washer
D	110 mm	Outer diameter housing washer
T	43 mm	Height
C <sub>a</sub>	138.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	255.000 N	Basic static load rating, axial
C <sub>ua</sub>	11.700 N	Fatigue load limit, axial
n <sub>G</sub>	2.650 1/min	Limiting speed
n <sub>gr</sub>	6.500 1/min	Reference speed
m	1,91 kg	Weight

**Mounting dimensions**

d <sub>a min</sub>	86 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	74 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1,5 mm	Maximum fillet radius



### Dimensions

$r_{\min}$	1,5 mm	Minimum chamfer dimension
$D_1$	52 mm	Inner diameter housing washer
$d_1$	110 mm	Outer diameter shaft washer

### Temperature range

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

### Calculation factors

A	0,4	Minimum load factor
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### Characteristics

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