

**FAG****6312-2Z**

Deep groove ball bearing

Deep groove ball bearing 63...-2Z, single row, shields, steel sheet metal cage

## Technical information



## Your current product variant

Sealing	2Z	Non-contact shield on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	GA13	Ball bearing and insert bearing grease
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

## Main Dimensions &amp; Performance Data

d	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width
C <sub>r</sub>	89,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	52,000 N	Basic static load rating, radial
C <sub>ur</sub>	3,600 N	Fatigue load limit, radial
n <sub>G</sub>	6,700 1/min	Limiting speed
n <sub>gr</sub>	6,700 1/min	Reference speed
≈m	1.76 kg	Weight



### Mounting dimensions

$d_{a \min}$	72 mm	Minimum diameter shaft shoulder
$D_{a \max}$	118 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2.1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	2.1 mm	Minimum chamfer dimension
$D_1$	108.62 mm	Shoulder diameter outer ring
$D_2$	113.14 mm	Caliber diameter outer ring
$d_1$	81.25 mm	Shoulder diameter inner ring

### Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

### Calculation factors

$f_0$	13.2	Calculation factor
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### Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides