

**FAG****6314-Z-C3**

Deep groove ball bearing

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

Technical information



Your current product variant

Sealing	Z	Non-contact shield on one Side
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (PN)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
C _r	115,000 N	Basic dynamic load rating, radial
C _{0r}	69,000 N	Basic static load rating, radial
C _{ur}	4,600 N	Fatigue load limit, radial
n _G	6,800 1/min	Limiting speed
n _{gr}	6,100 1/min	Reference speed
≈m	2.522 kg	Weight



Mounting dimensions

$d_{a\ min}$	82 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	138 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	126.34 mm	Shoulder diameter outer ring
D_2	130.18 mm	Caliber diameter outer ring
d_1	94.75 mm	Shoulder diameter inner ring

Temperature range

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

Calculation factors

f_0	13.4	Calculation factor
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Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Sealed on one side