



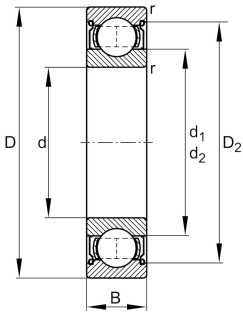
FAG

6309-Z

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	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C _r	56,000 N	Basic dynamic load rating, radial
C _{0r}	31,500 N	Basic static load rating, radial
C _{ur}	2,240 N	Fatigue load limit, radial
n _G	9,500 1/min	Limiting speed
n _{gr}	8,200 1/min	Reference speed
≈m	0.826 kg	Weight



Mounting dimensions

d a min	54 mm	Minimum diameter shaft shoulder
D a max	91 mm	Maximum diameter of housing shoulder
r a max	1.5 mm	Maximum fillet radius

Dimensions

r min	1.5 mm	Minimum chamfer dimension
D 1	83.3 mm	Shoulder diameter outer ring
D 2	85.64 mm	Caliber diameter outer ring
d 1	62 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	12.9	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