

**FAG****6307-2Z-C3**

Deep groove ball bearing

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

Technical information



Your current product variant

Type of Seal	2Z	Non-contact shield on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	GA13	Ball bearing and insert bearing grease
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
C _r	35.500 N	Basic dynamic load rating, radial
C _{0r}	19.100 N	Basic static load rating, radial
C _{ur}	1.290 N	Fatigue load limit, radial
n _G	10.500 1/min	Limiting speed
n _{gr}	9.900 1/min	Reference speed
≈m	0,465 kg	Weight



Mounting dimensions

d a min	44 mm	Minimum diameter shaft shoulder
D a max	71 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	65,6 mm	Shoulder diameter outer ring
D 2	67,6 mm	Caliber diameter outer ring
d 1	49,3 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	13,1	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