



FAG

6308-C-C3

Deep groove ball bearing

Deep groove ball bearing 63...-C, single row,
Generation C, steel sheet metal cage

Technical information



Your current product variant

Changed internal design	C	GenerationC
Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	P6	Class6 (P6), better than PN
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
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	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
C _r	50,000 N	Basic dynamic load rating, radial
C _{0r}	25,000 N	Basic static load rating, radial
C _{ur}	1,730 N	Fatigue load limit, radial
n _G	11,800 1/min	Limiting speed
n _{gr}	9,900 1/min	Reference speed
≈m	0.582 kg	Weight



Mounting dimensions

d a min	49 mm	Minimum diameter shaft shoulder
D a max	81 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	75.54 mm	Shoulder diameter outer ring
D 2	78.61 mm	Caliber diameter outer ring
d 1	55.08 mm	Shoulder diameter inner ring
d 2	52.28 mm	Caliber diameter inner ring

Temperature range

T min	-30 °C	Operating temperature min.
T max	120 °C	Operating temperature max.

Calculation factors

f 0	13	Calculation factor
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Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed