



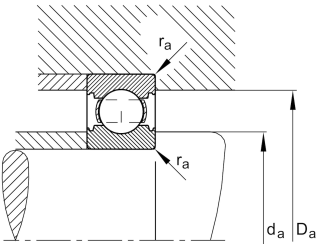
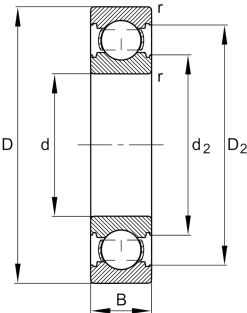
FAG

6209-C-C4

Deep groove ball bearing

Deep groove ball bearing 62...-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	C4 (Group 4)	Internal clearance larger than C3
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
C _r	35,500 N	Basic dynamic load rating, radial
C _{0r}	20,300 N	Basic static load rating, radial
C _{ur}	1,400 N	Fatigue load limit, radial
n _G	12,700 1/min	Limiting speed
n _{gr}	9,900 1/min	Reference speed
≈m	0.385 kg	Weight



Mounting dimensions

d a min	52 mm	Minimum diameter shaft shoulder
D a max	78 mm	Maximum diameter of housing shoulder
r a max	1 mm	Maximum fillet radius

Dimensions

r min	1.1 mm	Minimum chamfer dimension
D 1	72.35 mm	Shoulder diameter outer ring
D 2	75.34 mm	Caliber diameter outer ring
d 1	56.63 mm	Shoulder diameter inner ring
d 2	54.04 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	14.3	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