

**FAG****6309-C-NR>V**

## Deep groove ball bearing



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

## Technical information

**Your current product variant**

Version code	>V	Not marked on bearing
Changed internal design	C	GenerationC
Type of Seal	Without	Not sealed
Design, bearing outer ring	NR	Ring groove for snap ring with snap ring
Cage	JN	Steel sheet metal
Tolerance class	P6	Class6 (P6), better then 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 <sub>r</sub>	62.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	31.500 N	Basic static load rating, radial
C <sub>ur</sub>	2.190 N	Fatigue load limit, radial
n <sub>G</sub>	10.500 1/min	Limiting speed
n <sub>gr</sub>	9.100 1/min	Reference speed
m	0,799 kg	Weight

### Mounting dimensions

d <sub>a min</sub>	54 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	91 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1,5 mm	Maximum fillet radius

### Dimensions

r <sub>min</sub>	1,5 mm	Minimum chamfer dimension
D <sub>1</sub>	83,6 mm	Shoulder diameter outer ring
D <sub>2</sub>	86,37 mm	Caliber diameter outer ring
d <sub>1</sub>	62,25 mm	Shoulder diameter inner ring
d <sub>2</sub>	60,33 mm	Caliber diameter inner ring

### Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	150 °C	Operating temperature max.

### Calculation factors

f <sub>0</sub>	12,9	Calculation factor
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### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed