

**FAG****6209-C3**

Deep groove ball bearing

Deep groove ball bearing 62, single row, steel sheet metal cage

## Technical information

**Your current product variant**

Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
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	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
$C_r$	33.000 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
$n_G$	11.600 1/min	Limiting speed
$n_{gr}$	8.900 1/min	Reference speed
$m$	424,71 g	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
$D_1$	71,86 mm	Shoulder diameter outer ring
$D_2$	74,62 mm	Caliber diameter outer ring
$d_1$	57,2 mm	Shoulder 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