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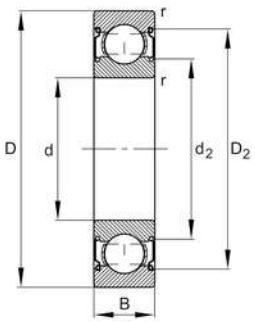
FAG

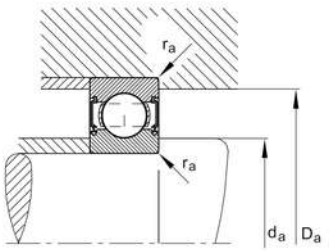
6209-C-Z-C3

Deep groove ball bearing

Deep groove ball bearing 62..-C-Z, single row, Generation C, shield , steel sheet metal cage

Technical information





Your current product variant

Changed internal design	C	GenerationC
Sealing	Z	Non-contact shield on one Side
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	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
$n_{\vartheta r}$	9,900 1/min	Reference speed
≈m	0.392 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website

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

Characteristics

- Radial load
- Axial load in one direction
- Axial load in two directions
- Grease Lubrication
- Oil Lubrication
- Sealed on one side

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