

**FAG****6209-C-HRS**

Deep groove ball bearing

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

Technical information



Your current product variant

Changed internal design	C	GenerationC
Sealing	HRS	Contact seal 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	CN (Group N)	Normal internal clearance
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	7,100 1/min	Limiting speed
≈m	0.394 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.
$T_{\max}$	100 °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
	Sealed on one side