

**FAG****HC6209-C-C3>V**

Deep groove ball bearing

Deep groove ball bearing HC62...-C, Hybrid bearing, single row, Generation C, steel sheet metal cage

Technical information

**Your current product variant**

Version code	>V	Not marked on bearing
Material Bearing	HC	Hybrid bearing, rolling elements ceramic, bearing rings made of steel
Changed internal design	C	GenerationC
Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	P6	Class 6 (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	35.500 N	Basic dynamic load rating, radial
C _{0r}	19.400 N	Basic static load rating, radial
C _{ur}	1.020 N	Fatigue load limit, radial
n _G	15.300 1/min	Limiting speed
n _{gr}	10.000 1/min	Reference speed
m	0,349 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	13,7	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



Current insulated