



FAG

6306-N-C3

Deep groove ball bearing

Deep groove ball bearing 63.-N, single row, ring groove, steel sheet metal cage



Technical information



Your current product variant

Type of Seal	Without	Not sealed
Design, bearing outer ring	N	Ring groove for snap ring
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	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
C _r	30.500 N	Basic dynamic load rating, radial
C _{0r}	16.200 N	Basic static load rating, radial
C _{ur}	1.050 N	Fatigue load limit, radial
n _G	13.700 1/min	Limiting speed
n _{gr}	10.500 1/min	Reference speed
≈m	351,23 g	Weight



Mounting dimensions

$d_{a\min}$	37 mm	Minimum diameter shaft shoulder
$D_{a\max}$	65 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	59,62 mm	Shoulder diameter outer ring
D_2	61,58 mm	Caliber diameter outer ring
d_1	44,6 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	13	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