

**FAG****6301-C>V**

Deep groove ball bearing

Deep groove ball bearing 63...-C, single row,
Generation C, steel sheet metal cage

Technical information



Your current product variant

Version code	>V	Not marked on bearing
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	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	12 mm	Bore diameter
D	37 mm	Outside diameter
B	12 mm	Width
C _r	11.500 N	Basic dynamic load rating, radial
C _{0r}	4.200 N	Basic static load rating, radial
C _{ur}	290 N	Fatigue load limit, radial
n _G	31.000 1/min	Limiting speed
n _{gr}	21.900 1/min	Reference speed
≈m	0,055 kg	Weight



Mounting dimensions

$d_{a \min}$	17,6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	31,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
D_1	30,06 mm	Shoulder diameter outer ring
D_2	32 mm	Caliber diameter outer ring
d_1	18,94 mm	Shoulder diameter inner ring
d_2	17,97 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	11,1	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