

**FAG****6301-C-2Z-L038-C3>V**

Deep groove ball bearing

Deep groove ball bearing 63...-C-2Z, single row, Generation C, shields, steel sheet metal cage

Technical information



Your current product variant

Version code	>V	Not marked on bearing
Changed internal design	C	GenerationC
Sealing	2Z	Non-contact shield on both sides
Cage	JN	Steel sheet metal
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	L038	Grease (L038/customer specific)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
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	26.500 1/min	Limiting speed
n_{gr}	21.900 1/min	Reference speed
m	0,06 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}	-20 °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
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides