

**FAG****61801>N**

Deep groove ball bearing

Deep groove ball bearing 618, single row,
steel sheet metal cage

Technical information



Your current product variant

Version code	>N	Not marked on bearing
Sealing	Without	Not sealed
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	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	12 mm	Bore diameter
D	21 mm	Outside diameter
B	5 mm	Width
C_r	2.040 N	Basic dynamic load rating, radial
C_{0r}	1.040 N	Basic static load rating, radial
C_{ur}	65 N	Fatigue load limit, radial
n_G	50.000 1/min	Limiting speed
n_{gr}	23.500 1/min	Reference speed
$\approx m$	0,006 kg	Weight



Mounting dimensions

$d_{a \min}$	14 mm	Minimum diameter shaft shoulder
$D_{a \max}$	19 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,3 mm	Maximum fillet radius

Dimensions

r_{\min}	0,3 mm	Minimum chamfer dimension
D_1	18,4 mm	Shoulder diameter outer ring
D_2	19,2 mm	Caliber diameter outer ring
d_1	14,8 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	15,3	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