

**FAG****61813-C3**

Deep groove ball bearing

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

Technical information

**Your current product variant**

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	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	65 mm	Bore diameter
D	85 mm	Outside diameter
B	10 mm	Width
C_r	13.000 N	Basic dynamic load rating, radial
C_{0r}	12.000 N	Basic static load rating, radial
C_{ur}	780 N	Fatigue load limit, radial
n_G	11.300 1/min	Limiting speed
n_{gr}	5.700 1/min	Reference speed
m	0,132 kg	Weight



Mounting dimensions

$d_{a \min}$	68,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	81,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius

Dimensions

r_{\min}	0,6 mm	Minimum chamfer dimension
D_1	78,57 mm	Shoulder diameter outer ring
d_1	71,6 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	16,2	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