

**FAG****61844-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	S1	Rings dimensional stabilized up to 200°
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	220 mm	Bore diameter
D	270 mm	Outside diameter
B	24 mm	Width
C_r	78.000 N	Basic dynamic load rating, radial
C_{0r}	97.000 N	Basic static load rating, radial
C_{ur}	3.650 N	Fatigue load limit, radial
n_G	3.200 1/min	Limiting speed
n_{gr}	2.320 1/min	Reference speed
m	2,459 kg	Weight



Mounting dimensions

$d_{a \min}$	227 mm	Minimum diameter shaft shoulder
$D_{a \max}$	263 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum fillet radius

Dimensions

r_{\min}	1,5 mm	Minimum chamfer dimension
D_1	255 mm	Shoulder diameter outer ring
d_1	235,85 mm	Shoulder diameter inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.

Calculation factors

f_0	15,8	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