

**FAG****61844-M**

Deep groove ball bearing

Deep groove ball bearing 618..-M, single row, solid brass cage

Technical information



Your current product variant

Sealing	Without	Not sealed
Cage	M	Solid brass cage, rolling element guided
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	CN (Group N)	Normal internal clearance
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	4.150 1/min	Limiting speed
n_{gr}	2.320 1/min	Reference speed
m	2,997 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