



FAG

61936-M-C3

Deep groove ball bearing

Deep groove ball bearing 619..-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	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	180 mm	Bore diameter
D	250 mm	Outside diameter
B	33 mm	Width
C _r	131.000 N	Basic dynamic load rating, radial
C _{0r}	136.000 N	Basic static load rating, radial
C _{ur}	5.600 N	Fatigue load limit, radial
n _G	4.550 1/min	Limiting speed
n _{gr}	3.200 1/min	Reference speed
≈m	4,83 kg	Weight



Mounting dimensions

$d_{a\min}$	188,8 mm	Minimum diameter shaft shoulder
$D_{a\max}$	241,2 mm	Maximum diameter of housing shoulder
$r_{a\max}$	2 mm	Maximum fillet radius

Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
D_1	228,8 mm	Shoulder diameter outer ring
d_1	202,16 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	16,5	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