



FAG

6220-M-C4

Deep groove ball bearing

Deep groove ball bearing 62...-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 (PN)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width
C _r	130,000 N	Basic dynamic load rating, radial
C _{0r}	93,000 N	Basic static load rating, radial
C _{ur}	5,500 N	Fatigue load limit, radial
n _G	6,500 1/min	Limiting speed
n _{gr}	4,800 1/min	Reference speed
≈m	3.84 kg	Weight



Mounting dimensions

$d_{a\ min}$	112 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	168 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.1 mm	Maximum fillet radius

Dimensions

$r_{\min}$	2.1 mm	Minimum chamfer dimension
D_1	154.94 mm	Shoulder diameter outer ring
d_1	125.08 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	150 °C	Operating temperature max.

Calculation factors

f_0	14.4	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