



FAG

6024-M-C3

Deep groove ball bearing

Deep groove ball bearing 60...-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	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	28 mm	Width
C _r	88,000 N	Basic dynamic load rating, radial
C _{0r}	77,000 N	Basic static load rating, radial
C _{ur}	3,650 N	Fatigue load limit, radial
n _G	6,500 1/min	Limiting speed
n _{gr}	4,450 1/min	Reference speed
≈m	2.64 kg	Weight



Mounting dimensions

d a min	128.8 mm	Minimum diameter shaft shoulder
D a max	171.2 mm	Maximum diameter of housing shoulder
r a max	2 mm	Maximum fillet radius

Dimensions

r min	2 mm	Minimum chamfer dimension
D 1	161.38 mm	Shoulder diameter outer ring
d 1	139.82 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	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