

**FAG****6316-M-J20AA-C4**

Deep groove ball bearing

Deep groove ball bearing 63.-M-J20AA, single row, solid brass cage, ceramic coated

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	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
Coating	J20AA	Current insulation, outer ring ceramic coated

Main Dimensions & Performance Data

d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width
C _r	131,000 N	Basic dynamic load rating, radial
C _{0r}	87,000 N	Basic static load rating, radial
C _{ur}	5,400 N	Fatigue load limit, radial
n _G	7,000 1/min	Limiting speed
n _{gr}	5,500 1/min	Reference speed
≈m	4,319 kg	Weight



Mounting dimensions

$d_{a \min}$	92 mm	Minimum diameter shaft shoulder
$D_{a \max}$	158 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	142.4 mm	Shoulder diameter outer ring
d_1	108.56 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	13.3	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
	Current insulated