

**FAG****6416-M-C3**

Deep groove ball bearing

Deep groove ball bearing 64..-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	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	80 mm	Bore diameter
D	200 mm	Outside diameter
B	48 mm	Width
C_r	173,000 N	Basic dynamic load rating, radial
C_{0r}	125,000 N	Basic static load rating, radial
C_{ur}	7,100 N	Fatigue load limit, radial
n_G	5,900 1/min	Limiting speed
n_{gr}	5,400 1/min	Reference speed
m	8.29 kg	Weight



Mounting dimensions

$d_{a \min}$	96 mm	Minimum diameter shaft shoulder
$D_{a \max}$	184 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2.5 mm	Maximum fillet radius

Dimensions

r_{\min}	3 mm	Minimum chamfer dimension
D_1	162.14 mm	Shoulder diameter outer ring
d_1	117.94 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	12.3	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