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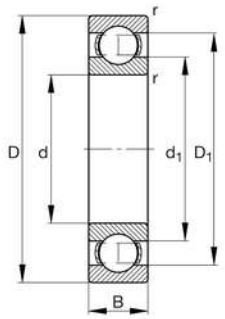
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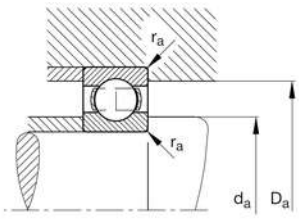
6416-M

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 (PN)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased
Radial internal clearance	CN (Group N)	Normal internal clearance
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
$n_{\vartheta r}$	5,400 1/min	Reference speed
≈m	8.29 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website

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

Characteristics



Radial load



Axial load in one direction



Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed

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