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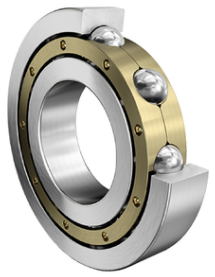
15.06.2026, 14:25:56 UTC

SCHAEFFLER



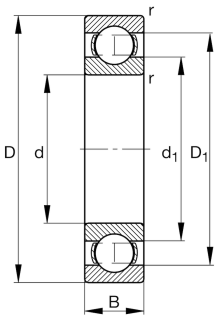
FAG

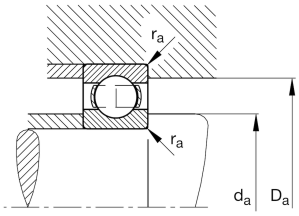
6234-M-C3

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 (ISO 492:2023)
Dimensional / heat stabilization	S1	Rings dimensional stabilized up to 200°
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	170 mm	Bore diameter
D	310 mm	Outside diameter
B	52 mm	Width
C_r	225,000 N	Basic dynamic load rating, radial
C_{0r}	224,000 N	Basic static load rating, radial
C_{ur}	9,600 N	Fatigue load limit, radial
n_G	3,800 1/min	Limiting speed
$n_{\vartheta r}$	2,950 1/min	Reference speed
≈m	18.096 kg	Weight

The data sheet only contains an overview of the technical data of the selected product. Please refer to the additional documentation for this product. For further information, please use the following link on our website: Contact form

Mounting dimensions

$d_{a\ min}$	187 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	293 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	3 mm	Maximum fillet radius

Dimensions

r_{min}	4 mm	Minimum chamfer dimension
D_1	260.85 mm	Shoulder diameter outer ring
d_1	219.04 mm	Shoulder diameter inner ring

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	200 °C	Operating temperature max.

Calculation factors

f_0	15.3	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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