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09.05.2026, 12:11:29 UTC

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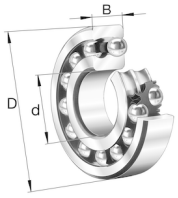


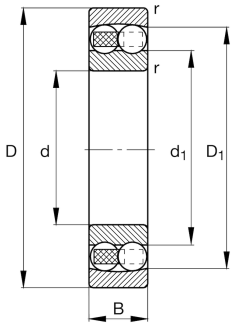
FAG

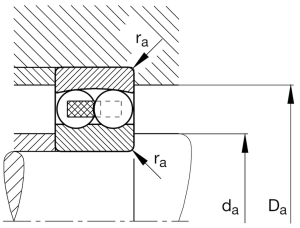
1230-M

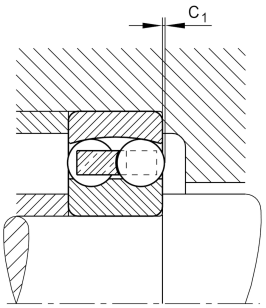
Self-aligning ball bearing

Self-aligning ball bearing 12..-M, solid brass cage

Technical information







Your current product variant

Bore type	Z	Cylindrical
Type of Sealing	Without	Not sealed
Cage	M	Solid brass cage, ball guided
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Radial internal clearance	CN (Group N)	Normal internal clearance
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	150 mm	Bore diameter
D	270 mm	Outside diameter
B	54 mm	Width
C_r	180.000 N	Basic dynamic load rating, radial
C_{0r}	87.000 N	Basic static load rating, radial
C_{ur}	3.800 N	Fatigue load limit, radial
n_G	3.600 1/min	Limiting speed
$n_{\vartheta r}$	3.400 1/min	Reference speed
≈m	14,5 kg	Weight

Mounting dimensions

$d_{a\ min}$	164 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	256 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	237,85 mm	Shoulder diameter outer ring
d_1	186,74 mm	Shoulder diameter inner ring
C_1	3,3 mm	Overhang rolling element

Temperature range

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

Calculation factors

e	0,22	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2,91	Dynamic axial load factor
Y_2	4,51	Dynamic axial load factor
Y_0	3,05	Static axial load factor

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed


Static angular error and misalignment


Dynamic angular error and misalignment