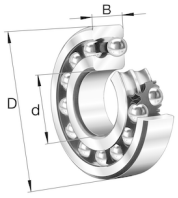


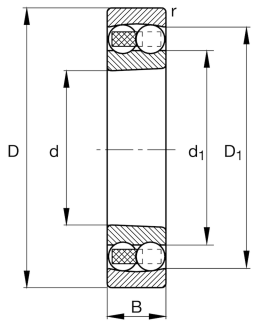
FAG

2317-K-M-C3

Self-aligning ball bearing

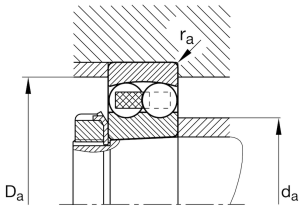
Self-aligning ball bearing 23..-K-M, tapered bore taper 1:12, solid brass cage

Technical information



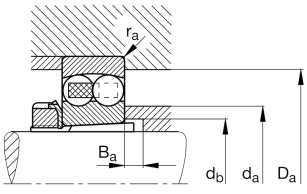
Your current product variant

Bore type	K	Tapered, taper 1:12
Sealing	Without	Not sealed
Cage	M	Solid brass cage, ball guided
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Lubricant	Without	Bearing not greased



Main Dimensions & Performance Data

d	85 mm	Bore diameter
D	180 mm	Outside diameter
B	60 mm	Width
C_r	143.000 N	Basic dynamic load rating, radial
C_{0r}	51.000 N	Basic static load rating, radial
C_{ur}	2.850 N	Fatigue load limit, radial
n_G	5.400 1/min	Limiting speed
$n_{\vartheta r}$	5.200 1/min	Reference speed
≈m	6,943 kg	Weight



Mounting dimensions

$d_{a\ min}$	99 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	106 mm	Maximum diameter shaft shoulder
$D_{a\ max}$	166 mm	Maximum diameter of housing shoulder
$d_{b\ min}$	94 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	7 mm	Minimum cavity width of the sleeve
$r_{a\ max}$	2,5 mm	Maximum fillet radius

Dimensions

r_{min}	3 mm	Minimum chamfer dimension
D_1	152,21 mm	Shoulder diameter outer ring
d_1	114,44 mm	Shoulder diameter inner ring

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	150 °C	Operating temperature max.

Calculation factors

e	0,37	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	1,68	Dynamic axial load factor
Y_2	2,61	Dynamic axial load factor
Y_0	1,76	Static axial load factor

Additional information

	H2317	Adapter sleeve

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