

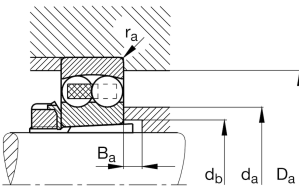
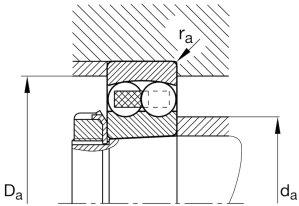
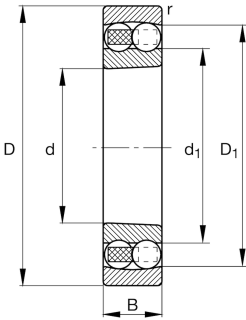
FAG

2310-K-TVH-C3

Self-aligning ball bearing

Self-aligning ball bearing 23...-K-TVH, tapered bore taper 1:12, plastic cage

Technical information



Your current product variant

Bore type	K	Tapered, taper 1:12
Sealing	Without	Not sealed
Cage	TVH	Solid cage made of glass-fiber reinforced polyamid PA66
Tolerance class	PN	Normal (PN)
Lubricant	Without	Bearing not greased
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
C <sub>r</sub>	66,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	20,200 N	Basic static load rating, radial
C <sub>ur</sub>	1,280 N	Fatigue load limit, radial
n <sub>G</sub>	6,300 1/min	Limiting speed
n <sub>gr</sub>	7,600 1/min	Reference speed
≈m	1.554 kg	Weight



Mounting dimensions

d <sub>a min</sub>	61 mm	Minimum diameter shaft shoulder
d <sub>a max</sub>	63 mm	Maximum diameter shaft shoulder
D <sub>a max</sub>	99 mm	Maximum diameter of housing shoulder
d <sub>b min</sub>	56 mm	Minimum cavity diameter of the sleeve
B <sub>a min</sub>	5 mm	Minimum cavity width of the sleeve
r <sub>a max</sub>	2 mm	Maximum fillet radius

Dimensions

r <sub>min</sub>	2 mm	Minimum chamfer dimension
D <sub>1</sub>	91.44 mm	Shoulder diameter outer ring
d <sub>1</sub>	65.86 mm	Shoulder diameter inner ring

Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	120 °C	Operating temperature max.

Calculation factors









e	0.43	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	1.46	Dynamic axial load factor
Y <sub>2</sub>	2.27	Dynamic axial load factor
Y <sub>0</sub>	1.53	Static axial load factor

Additional information

H2310	Adapter sleeve
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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