

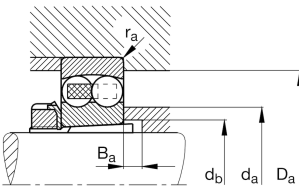
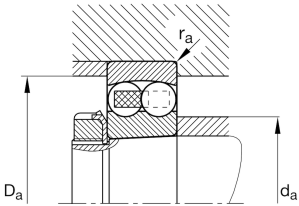
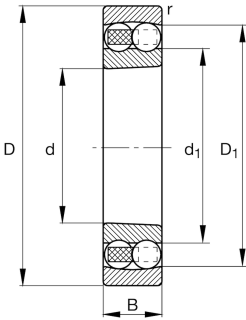
FAG

2216-K-TVH-C3

Self-aligning ball bearing

Self-aligning ball bearing 22..-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	80 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
C <sub>r</sub>	49,500 N	Basic dynamic load rating, radial
C <sub>0r</sub>	19,900 N	Basic static load rating, radial
C <sub>ur</sub>	1,210 N	Fatigue load limit, radial
n <sub>G</sub>	5,300 1/min	Limiting speed
n <sub>gr</sub>	5,400 1/min	Reference speed
≈m	1.97 kg	Weight



Mounting dimensions

d <sub>a min</sub>	91 mm	Minimum diameter shaft shoulder
d <sub>a max</sub>	96 mm	Maximum diameter shaft shoulder
D <sub>a max</sub>	129 mm	Maximum diameter of housing shoulder
d <sub>b min</sub>	85 mm	Minimum cavity diameter of the sleeve
B <sub>a min</sub>	12 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>	120.97 mm	Shoulder diameter outer ring
d <sub>1</sub>	99.2 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	0.25	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	2.48	Dynamic axial load factor
Y <sub>2</sub>	3.84	Dynamic axial load factor
Y <sub>0</sub>	2.6	Static axial load factor

Additional information

H316	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