

**FAG****1207-TVH-C3** [🔗](#)

Self-aligning ball bearing

Self-aligning ball bearing 12...TVH, plastic cage

Technical information



Your current product variant

Bore type	Z	Cylindrical
Type of Sealing	Without	Not sealed
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
Tolerance class	PN	Normal (ISO 492:2023)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
C _r	16,000 N	Basic dynamic load rating, radial
C _{0r}	5,100 N	Basic static load rating, radial
C _{ur}	325 N	Fatigue load limit, radial
n _G	11,600 1/min	Limiting speed
n _{gr}	9,800 1/min	Reference speed
≈m	0.32 kg	Weight

Mounting dimensions

d _{a min}	42 mm	Minimum diameter shaft shoulder
D _{a max}	65 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius



Dimensions

r_{min}	1.1 mm	Minimum chamfer dimension
D_1	59.08 mm	Shoulder diameter outer ring
d_1	47.7 mm	Shoulder diameter inner ring

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

Calculation factors

e	0.22	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.81	Dynamic axial load factor
Y_2	4.35	Dynamic axial load factor
Y_0	2.94	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