

**FAG****1209-TVH-C3** [🔗](#)

Self-aligning ball bearing

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

Technical information



Your current product variant

Bore type	Z	Cylindrical
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	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
C _r	22.000 N	Basic dynamic load rating, radial
C _{0r}	7.300 N	Basic static load rating, radial
C _{ur}	465 N	Fatigue load limit, radial
n _G	9.300 1/min	Limiting speed
n _{gr}	8.200 1/min	Reference speed
≈m	0,46 kg	Weight

Mounting dimensions

d _{a min}	52 mm	Minimum diameter shaft shoulder
D _{a max}	78 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	72,11 mm	Shoulder diameter outer ring
d_1	57,7 mm	Shoulder diameter inner ring

Temperature range

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

Calculation factors

e	0,21	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	3,03	Dynamic axial load factor
Y_2	4,68	Dynamic axial load factor
Y_0	3,17	Static axial load factor

Characteristics

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Radial load
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Axial load in one direction
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Axial load in two directions
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Grease Lubrication
- 

Oil Lubrication
- 

Not sealed
- 

Static angular error and misalignment
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Dynamic angular error and misalignment