

**FAG****1205-TVH**

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	CN (Group N)	Normal internal clearance
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
C <sub>r</sub>	12,300 N	Basic dynamic load rating, radial
C <sub>0r</sub>	3,300 N	Basic static load rating, radial
C <sub>ur</sub>	209 N	Fatigue load limit, radial
n <sub>G</sub>	15,500 1/min	Limiting speed
n <sub>gr</sub>	13,400 1/min	Reference speed
≈m	0.135 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	30.6 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	46.4 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1 mm	Maximum fillet radius



## Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	43.6 mm	Shoulder diameter outer ring
$d_1$	33.3 mm	Shoulder diameter inner ring

## Temperature range

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

## Calculation factors

$e$	0.27	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2.36	Dynamic axial load factor
$Y_2$	3.65	Dynamic axial load factor
$Y_0$	2.47	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