

**FAG****1210-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 &amp; Performance Data

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
$C_r$	22,900 N	Basic dynamic load rating, radial
$C_{0r}$	8,100 N	Basic static load rating, radial
$C_{ur}$	520 N	Fatigue load limit, radial
$n_G$	8,700 1/min	Limiting speed
$n_{gr}$	7,700 1/min	Reference speed
$m$	0.52 kg	Weight

## Mounting dimensions

$d_{a \min}$	57 mm	Minimum diameter shaft shoulder
$D_{a \max}$	83 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius



## Dimensions

$r_{\min}$	1.1 mm	Minimum chamfer dimension
$D_1$	77.13 mm	Shoulder diameter outer ring
$d_1$	62.7 mm	Shoulder diameter inner ring

## Temperature range

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

## Calculation factors

$e$	0.2	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3.15	Dynamic axial load factor
$Y_2$	4.87	Dynamic axial load factor
$Y_0$	3.3	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