

**FAG****2305-TVH>N**

Self-aligning ball bearing

Self-aligning ball bearing 23...TVH, plastic cage

## Technical information



## Your current product variant

Version code	>N	Not marked on bearing
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	62 mm	Outside diameter
B	24 mm	Width
$C_r$	25.000 N	Basic dynamic load rating, radial
$C_{0r}$	6.600 N	Basic static load rating, radial
$C_{ur}$	420 N	Fatigue load limit, radial
$n_G$	12.200 1/min	Limiting speed
$n_{gr}$	11.900 1/min	Reference speed
$m$	0,334 kg	Weight



### Mounting dimensions

$d_{a \min}$	32 mm	Minimum diameter shaft shoulder
$D_{a \max}$	55 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$D_1$	49,86 mm	Shoulder diameter outer ring
$d_1$	35,45 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$e$	0,48	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,32	Dynamic axial load factor
$Y_2$	2,04	Dynamic axial load factor
$Y_0$	1,38	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