

**FAG****2303-TVH**

Self-aligning ball bearing

Self-aligning ball bearing 23..-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	17 mm	Bore diameter
D	47 mm	Outside diameter
B	19 mm	Width
C <sub>r</sub>	13.900 N	Basic dynamic load rating, radial
C <sub>0r</sub>	3.200 N	Basic static load rating, radial
C <sub>ur</sub>	203 N	Fatigue load limit, radial
n <sub>G</sub>	17.000 1/min	Limiting speed
n <sub>gr</sub>	14.900 1/min	Reference speed
≈m	0,155 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	22,6 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	41,4 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1 mm	Maximum fillet radius



## Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	37,3 mm	Shoulder diameter outer ring
$d_1$	26,15 mm	Shoulder diameter inner ring

## Temperature range

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

## Calculation factors

$e$	0,53	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,19	Dynamic axial load factor
$Y_2$	1,85	Dynamic axial load factor
$Y_0$	1,25	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