

**FAG****2305-K-TVH-C3**

Self-aligning ball bearing

Self-aligning ball bearing 23..-K-TVH, tapered bore taper 1:12, plastic cage

Technical information



Your current product variant

Bore type	K	Tapered, taper 1:12
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	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
$\approx m$	327 g	Weight



Mounting dimensions

$d_{a \min}$	32 mm	Minimum diameter shaft shoulder
$d_{a \max}$	34 mm	Maximum diameter shaft shoulder
$D_{a \max}$	55 mm	Maximum diameter of housing shoulder
$d_{b \min}$	30 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve
$r_{a \max}$	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

Additional information

H2305

Adapter sleeve



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