

**FAG****2305-2RS-TVH>N**

Self-aligning ball bearing

Self-aligning ball bearing 23..-2RS-TVH,
seals, plastic cage

Technical information

**Your current product variant**

Version code	>N	Not marked on bearing
Bore type	Z	Cylindrical
Type of Sealing	2RS	Contact seal on both sides
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Radial internal clearance	CN (Group N)	Normal internal clearance
Lubricant	GA14	Ball bearing grease, low noise

Main Dimensions & Performance Data

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
C _r	18.300 N	Basic dynamic load rating, radial
C _{0r}	5.000 N	Basic static load rating, radial
C _{ur}	320 N	Fatigue load limit, radial
n _G	7.800 1/min	Limiting speed
≈m	0,345 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	50,51 mm	Shoulder diameter outer ring
D_2	52,38 mm	Caliber diameter outer ring
d_1	38,1 mm	Shoulder diameter inner ring
d_2	33,5 mm	Caliber diameter inner ring

Temperature range

T_{\min}	-20 °C	Operating temperature min.
T_{\max}	100 °C	Operating temperature max.

Calculation factors

e	0,28	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,29	Dynamic axial load factor
Y_2	3,54	Dynamic axial load factor
Y_0	2,4	Static axial load factor

Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides



Static angular error and misalignment



Dynamic angular error and misalignment