

**FAG****2205-2RS-TVH**

Self-aligning ball bearing

Self-aligning ball bearing 22..-2RS-TVH,
seals, plastic cage

Technical information



Your current product variant

Bore type	Z	Cylindrical
Sealing	2RS	Contact seal on both sides
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	GA14	Ball bearing grease, low noise

Main Dimensions & Performance Data

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
C _r	12,300 N	Basic dynamic load rating, radial
C _{0r}	3,300 N	Basic static load rating, radial
C _{ur}	209 N	Fatigue load limit, radial
n _G	8,500 1/min	Limiting speed
≈m	0.155 kg	Weight

Mounting dimensions

d _{a min}	30.6 mm	Minimum diameter shaft shoulder
D _{a max}	46.4 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius



Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
D_1	43.596 mm	Shoulder diameter outer ring
D_2	45.27 mm	Caliber diameter outer ring
d_1	32.9 mm	Shoulder diameter inner ring
d_2	30.7 mm	Caliber diameter inner ring









Temperature range

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

Calculation factors

e	0.27	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.36	Dynamic axial load factor
Y_2	3.65	Dynamic axial load factor
Y_0	2.47	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