

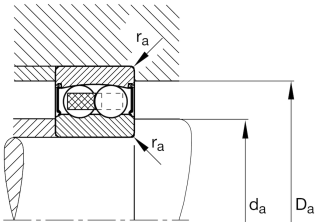
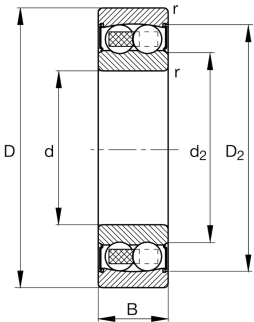
FAG

2310-2RS-TVH

Self-aligning ball bearing

Self-aligning ball bearing 23..-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 polyamid PA66
Tolerance class	PN	Normal (PN)
Lubricant	GA13	Ball bearing and insert bearing grease, standard for D>62mm
Radial internal clearance	CN (Group N)	Normal internal clearance

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
C _r	42,000 N	Basic dynamic load rating, radial
C _{0r}	14,200 N	Basic static load rating, radial
C _{ur}	900 N	Fatigue load limit, radial
n _G	4,000 1/min	Limiting speed
≈m	1.64 kg	Weight

Mounting dimensions

d _{a min}	61 mm	Minimum diameter shaft shoulder
D _{a max}	99 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum fillet radius



Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	91.5 mm	Shoulder diameter outer ring
D_2	95.13 mm	Caliber diameter outer ring
d_1	71.44 mm	Shoulder diameter inner ring
d_2	65.87 mm	Caliber diameter inner ring

Temperature range

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

Calculation factors

e	0.24	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.59	Dynamic axial load factor
Y_2	4.01	Dynamic axial load factor
Y_0	2.72	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