

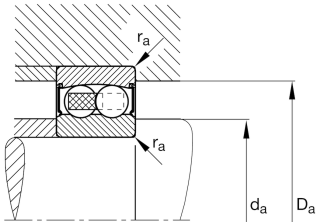
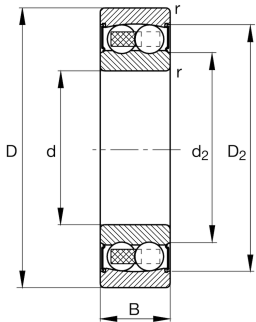
FAG

2309-2RS-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 polyamide PA66
Tolerance class	PN	Normal (ISO 492:2023)
Radial internal clearance	CN (Group N)	Normal internal clearance
Lubricant	GA13	Ball bearing and insert bearing grease

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
C _r	38.500 N	Basic dynamic load rating, radial
C _{0r}	12.700 N	Basic static load rating, radial
C _{ur}	810 N	Fatigue load limit, radial
n _G	4.550 1/min	Limiting speed
≈m	1,299 kg	Weight

Mounting dimensions

d _{a min}	54 mm	Minimum diameter shaft shoulder
D _{a max}	91 mm	Maximum diameter of housing shoulder
r _{a max}	1,5 mm	Maximum fillet radius



Dimensions

r _{min}	1,5 mm	Minimum chamfer dimension
D ₁	83,684 mm	Shoulder diameter outer ring
D ₂	85,81 mm	Caliber diameter outer ring
d ₁	63,9 mm	Shoulder diameter inner ring
d ₂	57,45 mm	Caliber diameter inner ring

Temperature range

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

Calculation factors

e	0,25	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,51	Dynamic axial load factor
Y ₂	3,88	Dynamic axial load factor
Y ₀	2,63	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