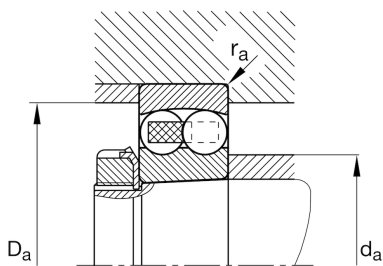
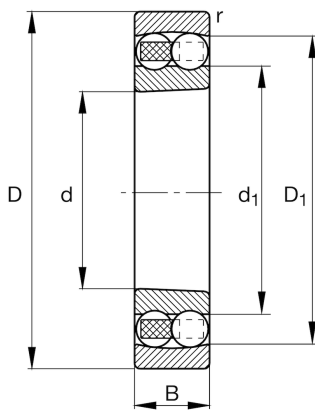
**FAG****1309-K-TVH-C3** [🔗](#)

Self-aligning ball bearing

Self-aligning ball bearing 13..-K-TVH, tapered bore taper 1:12, plastic cage

Technical information



Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 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	7.500 1/min	Limiting speed
n _{gr}	6.700 1/min	Reference speed
≈m	0,941 kg	Weight

Mounting dimensions

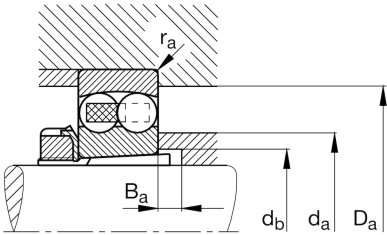
d _{a min}	54 mm	Minimum diameter shaft shoulder
d _{a max}	61 mm	Maximum diameter shaft shoulder
D _{a max}	91 mm	Maximum diameter of housing shoulder
d _{b min}	50 mm	Minimum cavity diameter of the sleeve
B _{a min}	5 mm	Minimum cavity width of the sleeve
r _{a max}	1,5 mm	Maximum fillet radius

Dimensions

r _{min}	1,5 mm	Minimum chamfer dimension
D ₁	83,53 mm	Shoulder diameter outer ring
d ₁	64,05 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.



Calculation factors

e	0,25	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

Additional information

H309	Adapter sleeve
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