



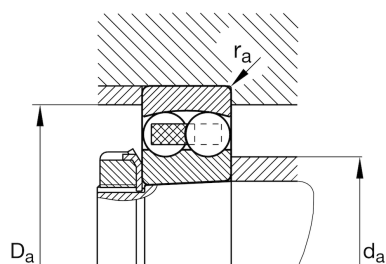
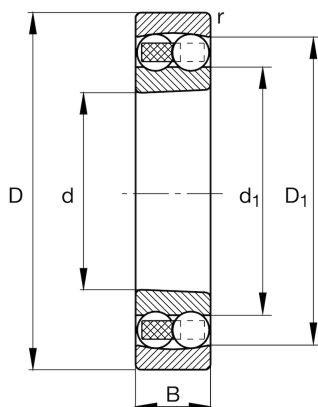
FAG

2309-K-TVH-C3

Self-aligning ball bearing

Schaeffler ID:
0389071940030Self-aligning ball bearing 23...-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	36 mm	Width
r _{min}	1.5 mm	Minimum chamfer dimension
C _r	55,000 N	Basic dynamic load rating, radial
C _{0r}	16,600 N	Basic static load rating, radial
C _{ur}	1,060 N	Fatigue load limit, radial
n _G	7,000 1/min	Limiting speed
n _{gr}	8,000 1/min	Reference speed
	1.176 kg	Weight

Dimensions

D ₁	83.6 mm	Shoulder diameter outer ring
d ₁	60.1 mm	Shoulder diameter inner ring

Mounting dimensions

d _{a min}	54 mm	Minimum diameter shaft shoulder
d _{a max}	57 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

Calculation factors

e	0.43	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H2309	Adapter sleeve
Y ₁	1.47	Dynamic axial load factor
Y ₂	2.28	Dynamic axial load factor
Y ₀	1.54	Static axial load factor

Temperature range

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