



FAG

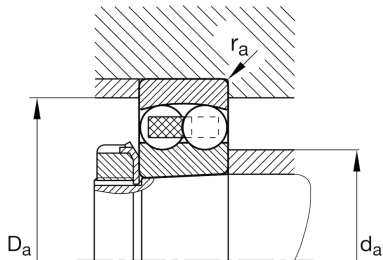
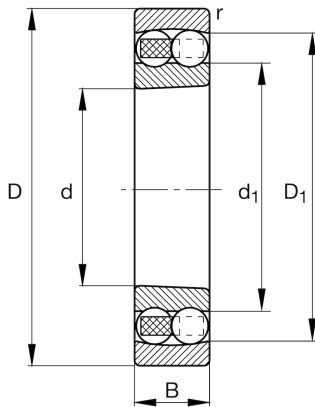
★ 2309-K-TVH-C3

Self-aligning ball bearing

Schaeffler ID:
0389071940030Self-aligning ball bearing 23...-K-TVH,
tapered bore taper 1:12, plastic cage

★ Preferred product

Technical information



Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.
	1,176 kg	Weight

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

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