

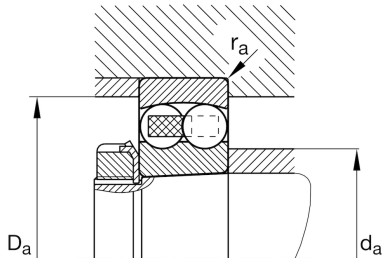
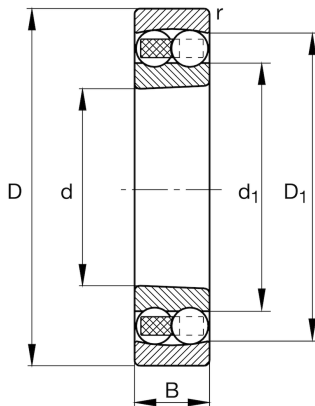
FAG

**1309-K-TVH-C3**

Self-aligning ball bearing

Schaeffler ID:  
0389035630030Self-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
$r_{\min}$	1.5 mm	Minimum chamfer dimension
$C_r$	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
	0.941 kg	Weight

**Dimensions**

$D_1$	83.5 mm	Shoulder diameter outer ring
$d_1$	64.1 mm	Shoulder diameter inner ring

**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

**Calculation factors**

e	0.25	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
	H309	Adapter sleeve
$Y_1$	2.51	Dynamic axial load factor
$Y_2$	3.88	Dynamic axial load factor
$Y_0$	2.63	Static axial load factor

**Temperature range**

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	120 °C	Operating temperature max.