



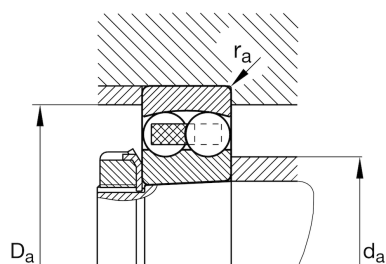
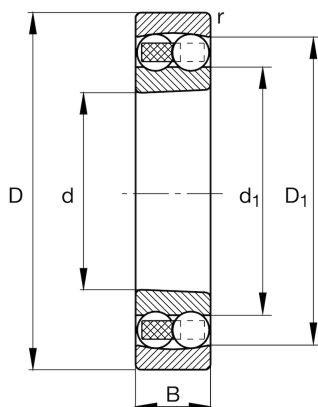
FAG

**1307-K-TVH-C3**

Self-aligning ball bearing

Schaeffler ID:  
0389035390030Self-aligning ball bearing 13..-K-TVH,  
tapered bore taper 1:12, plastic cage

## Technical information

**Main Dimensions & Performance Data**

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
$r_{\min}$	1.5 mm	Minimum chamfer dimension
$C_r$	25,500 N	Basic dynamic load rating, radial
$C_{0r}$	7,900 N	Basic static load rating, radial
$C_{ur}$	500 N	Fatigue load limit, radial
$n_G$	9,700 1/min	Limiting speed
$n_{gr}$	7,800 1/min	Reference speed
	0.494 kg	Weight

**Dimensions**

$D_1$	70.1 mm	Shoulder diameter outer ring
$d_1$	51.3 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a\min}$	44 mm	Minimum diameter shaft shoulder
$d_{a\max}$	49 mm	Maximum diameter shaft shoulder
$D_{a\max}$	71 mm	Maximum diameter of housing shoulder
$d_{b\min}$	39 mm	Minimum cavity diameter of the sleeve
$B_{a\min}$	8 mm	Minimum cavity width of the sleeve
$r_{a\max}$	1.5 mm	Maximum fillet radius

**Calculation factors**

e	0.26	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
	H307	Adapter sleeve
$Y_1$	2.46	Dynamic axial load factor
$Y_2$	3.8	Dynamic axial load factor
$Y_0$	2.57	Static axial load factor

**Temperature range**

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