

FAG

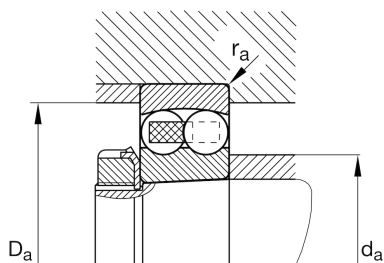
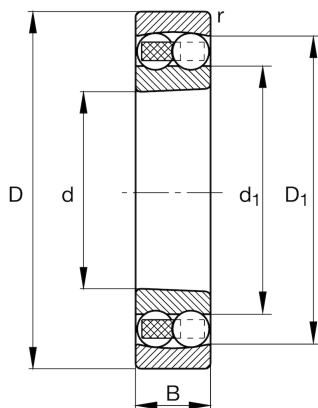
## ★ 1307-K-TVH-C3

Self-aligning ball bearing

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

★ Preferred product

## Technical information



## Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.
	0,494 kg	Weight

## Main Dimensions &amp; 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

## 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 Fa/Fr for the applicability of diff. Values of factors X and Y
	H307	Adapter sleeve
Y <sub>1</sub>	2,46	Dynamic axial load factor
Y <sub>2</sub>	3,8	Dynamic axial load factor
Y <sub>0</sub>	2,57	Static axial load factor