

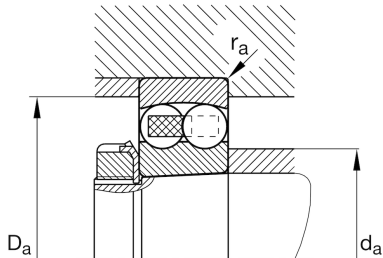
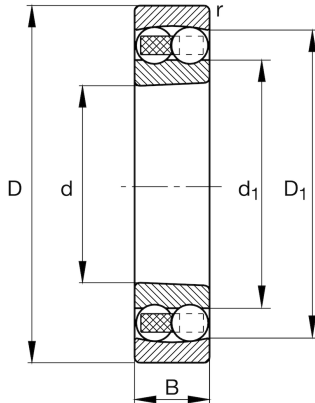
FAG

**1311-K-TVH-C3**

Self-aligning ball bearing

Schaeffler ID:  
0389036100030Self-aligning ball bearing 13..-K-TVH,  
tapered bore taper 1:12, plastic cage

## Technical information

**Main Dimensions & Performance Data**

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
$r_{\min}$	2 mm	Minimum chamfer dimension
$C_r$	52.000 N	Basic dynamic load rating, radial
$C_{0r}$	17.900 N	Basic static load rating, radial
$C_{ur}$	1.130 N	Fatigue load limit, radial
$n_G$	6.100 1/min	Limiting speed
$n_{gr}$	5.800 1/min	Reference speed
	1,56 kg	Weight

**Dimensions**

$D_1$	101 mm	Shoulder diameter outer ring
	H311	Adapter sleeve
$d_1$	78 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a \min}$	66 mm	Minimum diameter shaft shoulder
$d_{a \max}$	74 mm	Maximum diameter shaft shoulder
$D_{a \max}$	109 mm	Maximum diameter of housing shoulder
$d_{b \min}$	60 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	6 mm	Minimum cavity width of the sleeve
$r_{a \max}$	2 mm	Maximum fillet radius

**Calculation factors**

e	0,24	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,65	Dynamic axial load factor
$Y_2$	4,1	Dynamic axial load factor
$Y_0$	2,78	Static axial load factor

**Temperature range**

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