



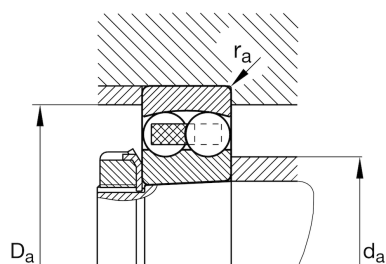
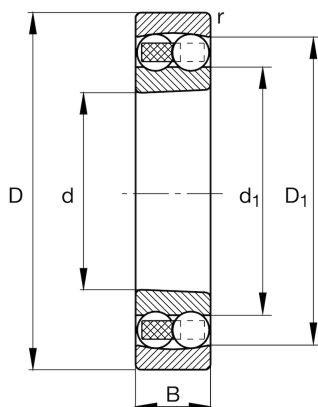
FAG

**1205-K-TVH-C3**

Self-aligning ball bearing

Schaeffler ID:  
0389029070030Self-aligning ball bearing 12..-K-TVH,  
tapered bore taper 1:12, plastic cage

## Technical information

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
r <sub>min</sub>	1 mm	Minimum chamfer dimension
C <sub>r</sub>	12,300 N	Basic dynamic load rating, radial
C <sub>0r</sub>	3,300 N	Basic static load rating, radial
C <sub>ur</sub>	209 N	Fatigue load limit, radial
n <sub>G</sub>	15,500 1/min	Limiting speed
n <sub>gr</sub>	13,400 1/min	Reference speed
	0.131 kg	Weight

**Dimensions**

D <sub>1</sub>	43.6 mm	Shoulder diameter outer ring
d <sub>1</sub>	33.3 mm	Shoulder diameter inner ring

**Mounting dimensions**

d <sub>a min</sub>	30.6 mm	Minimum diameter shaft shoulder
d <sub>a max</sub>	32 mm	Maximum diameter shaft shoulder
D <sub>a max</sub>	46.4 mm	Maximum diameter of housing shoulder
d <sub>b min</sub>	28 mm	Minimum cavity diameter of the sleeve
B <sub>a min</sub>	5 mm	Minimum cavity width of the sleeve
r <sub>a max</sub>	1 mm	Maximum fillet radius

**Calculation factors**

e	0.27	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H205	Adapter sleeve
Y <sub>1</sub>	2.36	Dynamic axial load factor
Y <sub>2</sub>	3.65	Dynamic axial load factor
Y <sub>0</sub>	2.47	Static axial load factor

**Temperature range**

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