

**FAG****1310-K-TVH-C3**

Self-aligning ball bearing

Schaeffler ID:  
0389035800030Self-aligning ball bearing 13..-K-TVH,  
tapered bore taper 1:12, plastic cage

## Technical information

**Main Dimensions & Performance Data**

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
r <sub>min</sub>	2 mm	Minimum chamfer dimension
C <sub>r</sub>	42.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	14.200 N	Basic static load rating, radial
C <sub>ur</sub>	900 N	Fatigue load limit, radial
n <sub>G</sub>	6.900 1/min	Limiting speed
n <sub>gr</sub>	6.300 1/min	Reference speed
	1,208 kg	Weight

**Dimensions**

D <sub>1</sub>	91,7 mm	Shoulder diameter outer ring
	H310	Adapter sleeve
d <sub>1</sub>	71,2 mm	Shoulder diameter inner ring

**Mounting dimensions**

d <sub>a min</sub>	61 mm	Minimum diameter shaft shoulder
d <sub>a max</sub>	68 mm	Maximum diameter shaft shoulder
D <sub>a max</sub>	99 mm	Maximum diameter of housing shoulder
d <sub>b min</sub>	55 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>	2 mm	Maximum fillet radius

**Calculation factors**

e	0,24	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	2,59	Dynamic axial load factor
Y <sub>2</sub>	4,01	Dynamic axial load factor
Y <sub>0</sub>	2,72	Static axial load factor

**Temperature range**

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