



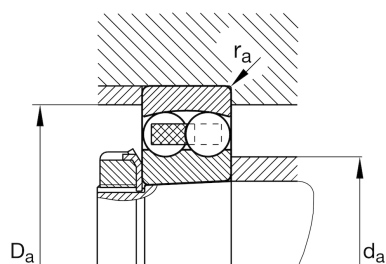
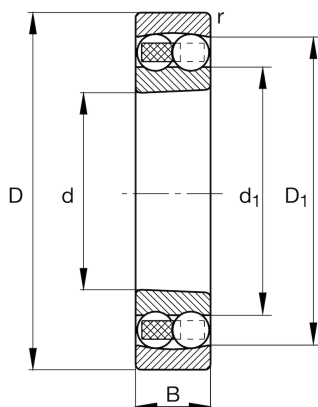
FAG

**1305-K-TVH-C3**

Self-aligning ball bearing

Schaeffler ID:  
0389035040030Self-aligning ball bearing 13..-K-TVH,  
tapered bore taper 1:12, plastic cage

## Technical information

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
$r_{\min}$	1,1 mm	Minimum chamfer dimension
$C_r$	18.300 N	Basic dynamic load rating, radial
$C_{0r}$	5.000 N	Basic static load rating, radial
$C_{ur}$	320 N	Fatigue load limit, radial
$n_G$	12.900 1/min	Limiting speed
$n_{gr}$	10.000 1/min	Reference speed
	0,003 kg	Weight

**Dimensions**

$D_1$	50,4 mm	Shoulder diameter outer ring
$d_1$	38,1 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a\min}$	32 mm	Minimum diameter shaft shoulder
$d_{a\max}$	35 mm	Maximum diameter shaft shoulder
$D_{a\max}$	55 mm	Maximum diameter of housing shoulder
$d_{b\min}$	28 mm	Minimum cavity diameter of the sleeve
$B_{a\min}$	6 mm	Minimum cavity width of the sleeve
$r_{a\max}$	1 mm	Maximum fillet radius

**Calculation factors**

e	0,28	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,29	Dynamic axial load factor
$Y_2$	3,54	Dynamic axial load factor
$Y_0$	2,4	Static axial load factor

**Temperature range**

T <sub>min</sub>	-30 °C	Operating temperature min.
	H305	Adapter sleeve
T <sub>max</sub>	120 °C	Operating temperature max.