


**FAG**
**★ 1309-K-TVH-C3**

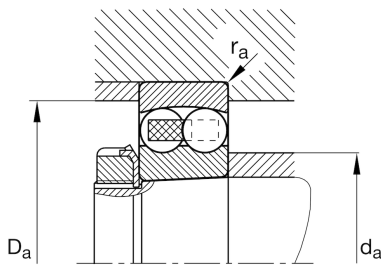
Self-aligning ball bearing

 Schaeffler ID:  
0389035630030

 Self-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.
	0,941 kg	Weight

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
$r_{\min}$	1,5 mm	Minimum chamfer dimension
$C_r$	38.500 N	Basic dynamic load rating, radial
$C_{0r}$	12.700 N	Basic static load rating, radial
$C_{ur}$	810 N	Fatigue load limit, radial
$n_G$	7.500 1/min	Limiting speed
$n_{gr}$	6.700 1/min	Reference speed

**Dimensions**

$D_1$	83,5 mm	Shoulder diameter outer ring
$d_1$	64,1 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a \min}$	54 mm	Minimum diameter shaft shoulder
$d_{a \max}$	61 mm	Maximum diameter shaft shoulder
$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$d_{b \min}$	50 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve
$r_{a \max}$	1,5 mm	Maximum fillet radius

**Calculation factors**

e	0,25	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H309	Adapter sleeve
Y <sub>1</sub>	2,51	Dynamic axial load factor
Y <sub>2</sub>	3,88	Dynamic axial load factor
Y <sub>0</sub>	2,63	Static axial load factor