

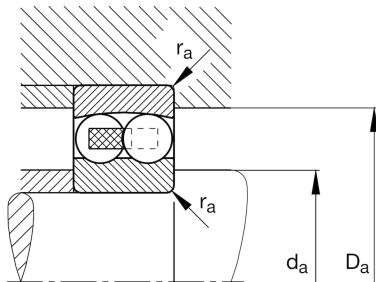
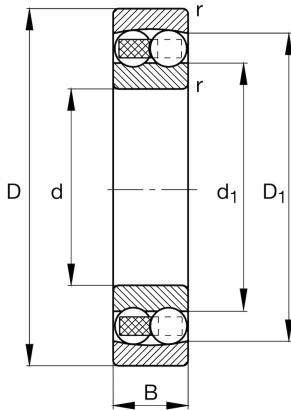
FAG

1309-TVH

Self-aligning ball bearing

Schaeffler ID:
0167007590000Self-aligning ball bearing 13..-TVH, plastic
cage

Technical information

**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
	0.911 kg	Weight

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
$D_{a\max}$	91 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1.5 mm	Maximum fillet radius

Calculation factors

e	0.25	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.51	Dynamic axial load factor
Y_2	3.88	Dynamic axial load factor
Y_0	2.63	Static axial load factor

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.