

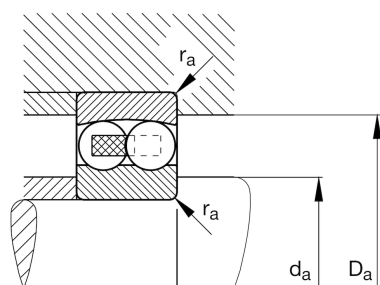
FAG

1301-TVH

Self-aligning ball bearing

Schaeffler ID:
0190000490000Self-aligning ball bearing 13..-TVH, plastic
cage

Technical information

**Main Dimensions & Performance Data**

d	12 mm	Bore diameter
D	37 mm	Outside diameter
B	12 mm	Width
r_{\min}	1 mm	Minimum chamfer dimension
C_r	9,800 N	Basic dynamic load rating, radial
C_{0r}	2,160 N	Basic static load rating, radial
C_{ur}	137 N	Fatigue load limit, radial
n_G	22,300 1/min	Limiting speed
n_{gr}	16,200 1/min	Reference speed
	0.06 kg	Weight

Dimensions

D_1	29.7 mm	Shoulder diameter outer ring
d_1	20.3 mm	Shoulder diameter inner ring

Mounting dimensions

$d_{a\min}$	17.6 mm	Minimum diameter shaft shoulder
$D_{a\max}$	31.4 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1 mm	Maximum fillet radius

Calculation factors

e	0.35	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	1.8	Dynamic axial load factor
Y_2	2.79	Dynamic axial load factor
Y_0	1.89	Static axial load factor

Temperature range

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