



FAG

1205-TVH

Self-aligning ball bearing

Schaeffler ID:
0167002870000Self-aligning ball bearing 12..-TVH, plastic
cage

Technical information

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
r_{\min}	1 mm	Minimum chamfer dimension
C_r	12,300 N	Basic dynamic load rating, radial
C_{0r}	3,300 N	Basic static load rating, radial
C_{ur}	209 N	Fatigue load limit, radial
n_G	15,500 1/min	Limiting speed
n_{gr}	13,400 1/min	Reference speed
	0.135 kg	Weight

Dimensions

D_1	43.6 mm	Shoulder diameter outer ring
d_1	33.3 mm	Shoulder diameter inner ring

Mounting dimensions

$d_{a\min}$	30.6 mm	Minimum diameter shaft shoulder
$D_{a\max}$	46.4 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1 mm	Maximum fillet radius

Calculation factors

e	0.27	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.36	Dynamic axial load factor
Y_2	3.65	Dynamic axial load factor
Y_0	2.47	Static axial load factor

Temperature range

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