



FAG

2309-TVH

Self-aligning ball bearing

Schaeffler ID:
0167073620000Self-aligning ball bearing 23..-TVH, plastic
cage

Technical information

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
r_{\min}	1.5 mm	Minimum chamfer dimension
C_r	55,000 N	Basic dynamic load rating, radial
C_{0r}	16,600 N	Basic static load rating, radial
C_{ur}	1,060 N	Fatigue load limit, radial
n_G	7,000 1/min	Limiting speed
n_{gr}	8,000 1/min	Reference speed
	1.209 kg	Weight

Dimensions

D_1	83.6 mm	Shoulder diameter outer ring
d_1	60.1 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	0.43	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	1.47	Dynamic axial load factor
Y_2	2.28	Dynamic axial load factor
Y_0	1.54	Static axial load factor

Temperature range

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