



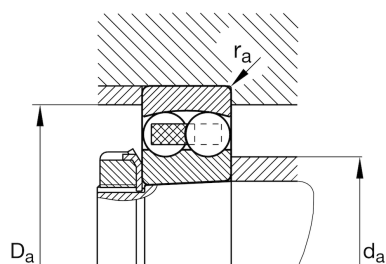
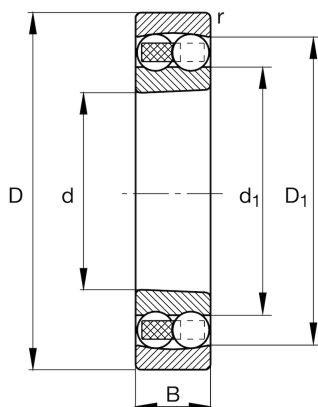
FAG

1209-K-TVH-C3

Self-aligning ball bearing

Schaeffler ID:
0385273400030Self-aligning ball bearing 12..-K-TVH,
tapered bore taper 1:12, plastic cage

Technical information

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
r_{\min}	1.1 mm	Minimum chamfer dimension
C_r	22,000 N	Basic dynamic load rating, radial
C_{0r}	7,300 N	Basic static load rating, radial
C_{ur}	465 N	Fatigue load limit, radial
n_G	9,300 1/min	Limiting speed
n_{gr}	8,200 1/min	Reference speed
	0.446 kg	Weight

Dimensions

D_1	72.1 mm	Shoulder diameter outer ring
d_1	57.7 mm	Shoulder diameter inner ring

Mounting dimensions

$d_{a\min}$	52 mm	Minimum diameter shaft shoulder
$d_{a\max}$	57 mm	Maximum diameter shaft shoulder
$D_{a\max}$	78 mm	Maximum diameter of housing shoulder
$d_{b\min}$	48 mm	Minimum cavity diameter of the sleeve
$B_{a\min}$	5 mm	Minimum cavity width of the sleeve
$r_{a\max}$	1 mm	Maximum fillet radius

Calculation factors

e	0.21	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
	H209	Adapter sleeve
Y_1	3.03	Dynamic axial load factor
Y_2	4.68	Dynamic axial load factor
Y_0	3.17	Static axial load factor

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.