



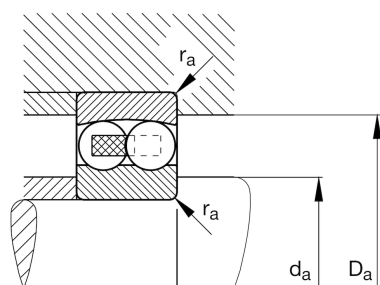
FAG

2307-TVH

Self-aligning ball bearing

Schaeffler ID:
0167072140000Self-aligning ball bearing 23..-TVH, plastic
cage

Technical information

**Main Dimensions & Performance Data**

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
r_{\min}	1.5 mm	Minimum chamfer dimension
C_r	40,500 N	Basic dynamic load rating, radial
C_{0r}	11,200 N	Basic static load rating, radial
C_{ur}	710 N	Fatigue load limit, radial
n_G	8,900 1/min	Limiting speed
n_{gr}	9,800 1/min	Reference speed
	0.66 kg	Weight

Dimensions

D_1	66.1 mm	Shoulder diameter outer ring
d_1	46.9 mm	Shoulder diameter inner ring

Mounting dimensions

$d_{a\min}$	44 mm	Minimum diameter shaft shoulder
$D_{a\max}$	71 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1.5 mm	Maximum fillet radius

Calculation factors

e	0.46	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	1.36	Dynamic axial load factor
Y_2	2.1	Dynamic axial load factor
Y_0	1.42	Static axial load factor

Temperature range

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