

**FAG****2307-K-TVH-C3**

Self-aligning ball bearing

Self-aligning ball bearing 23...-K-TVH,
tapered bore taper 1:12, plastic cage

Technical information

**Main Dimensions & Performance Data**

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
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
$\approx m$	0,647 kg	Weight

Mounting dimensions

$d_{a \min}$	44 mm	Minimum diameter shaft shoulder
$d_{a \max}$	45 mm	Maximum diameter shaft shoulder
$D_{a \max}$	71 mm	Maximum diameter of housing shoulder
$d_{b \min}$	40 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve
$r_{a \max}$	1,5 mm	Maximum fillet radius

Dimensions

r_{\min}	1,5 mm	Minimum chamfer dimension
D_1	66,05 mm	Shoulder diameter outer ring
d_1	46,85 mm	Shoulder diameter inner ring

Temperature range

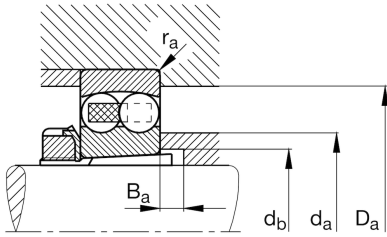
T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.



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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

Additional information

H2307	Adapter sleeve
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