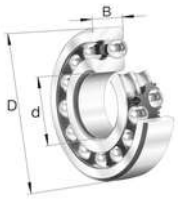
SCHAEFFLER



FAG

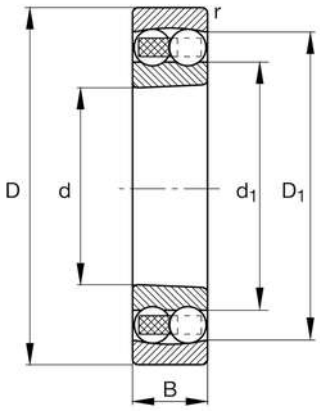
2311-K-TVH-C3

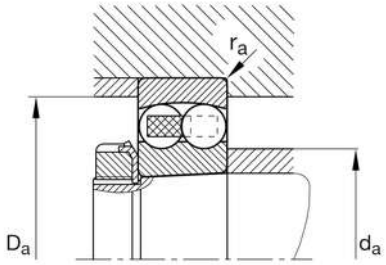
Self-aligning ball bearing

Schaeffler ID:
0389072830030

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

Technical information





Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
C_r	77.000 N	Basic dynamic load rating, radial
C_{0r}	24.000 N	Basic static load rating, radial
C_{ur}	1.520 N	Fatigue load limit, radial
n_G	5.700 1/min	Limiting speed
$n_{\vartheta r}$	7.100 1/min	Reference speed
	2,05 kg	Weight

Mounting dimensions

$d_{a\ min}$	66 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	69 mm	Maximum diameter shaft shoulder
$D_{a\ max}$	109 mm	Maximum diameter of housing shoulder
$d_{b\ min}$	61 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	6 mm	Minimum cavity width of the sleeve
$r_{a\ max}$	2 mm	Maximum fillet radius

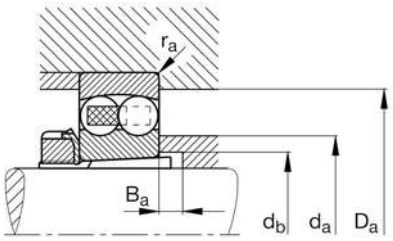
Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	100,2 mm	Shoulder diameter outer ring
d_1	71,7 mm	Shoulder diameter inner ring

Temperature range

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

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.



Calculation factors

e	0,42	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	1,5	Dynamic axial load factor
Y_2	2,33	Dynamic axial load factor
Y_0	1,58	Static axial load factor

Additional information

	H2311	Adapter sleeve

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