

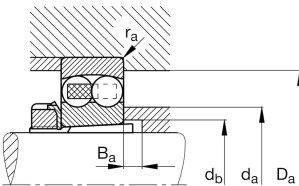
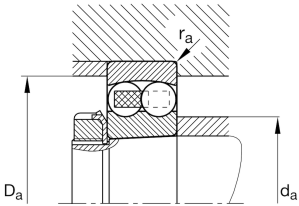
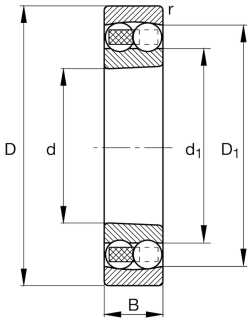
FAG

2311-K-TVH-C3

Self-aligning ball bearing

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

Technical information



Your current product variant

Bore type	K	Tapered, taper 1:12
Type of Seal	Without	Not sealed
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
Tolerance class	PN	Normal (ISO 492:2023)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Lubricant	Without	Bearing not greased

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 _{gr}	7.100 1/min	Reference speed
≈m	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	71,68 mm	Shoulder diameter inner ring

Temperature range

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

Calculation factors

e	0,42	Limiting value of F_a/F_r 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



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment