

**FAG****2311-K-2RS-TVH-C3**

Self-aligning ball bearing

Self-aligning ball bearing 23..-K-2RS-TVH,
tapered bore taper 1:12, seals, plastic cage

Technical information

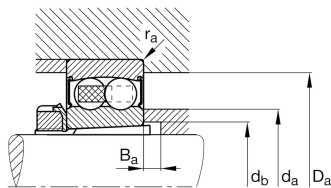
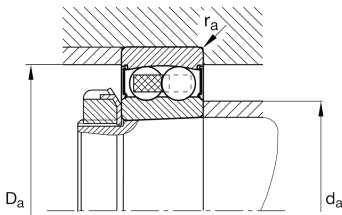


Your current product variant

Bore type	K	Tapered, taper 1:12
Sealing	2RS	Contact seal on both sides
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	GA13	Ball bearing and insert bearing grease

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
C_r	52.000 N	Basic dynamic load rating, radial
C_{0r}	17.900 N	Basic static load rating, radial
C_{ur}	1.130 N	Fatigue load limit, radial
n_G	3.750 1/min	Limiting speed
$\approx m$	2,136 kg	Weight





Mounting dimensions

$d_{a \min}$	66 mm	Minimum diameter shaft shoulder
$d_{a \max}$	74 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	101,272 mm	Shoulder diameter outer ring
D_2	106,35 mm	Caliber diameter outer ring
d_1	77,8 mm	Shoulder diameter inner ring
d_2	70,45 mm	Caliber diameter inner ring

Temperature range

T_{\min}	-20 °C	Operating temperature min.
T_{\max}	100 °C	Operating temperature max.

Calculation factors

e	0,24	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,65	Dynamic axial load factor
Y_2	4,1	Dynamic axial load factor
Y_0	2,78	Static axial load factor









Additional information

H2311

Adapter sleeve



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides
-  Static angular error and misalignment
-  Dynamic angular error and misalignment