

**FAG****2310-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

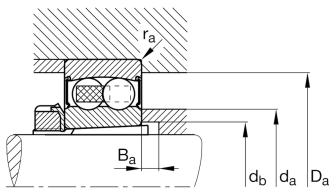
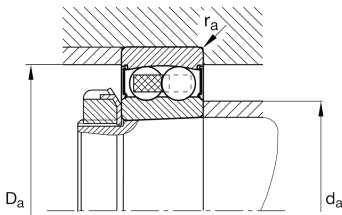


Your current product variant

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	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
C_r	42.000 N	Basic dynamic load rating, radial
C_{0r}	14.200 N	Basic static load rating, radial
C_{ur}	900 N	Fatigue load limit, radial
n_G	4.000 1/min	Limiting speed
$\approx m$	1,6 kg	Weight





Mounting dimensions

$d_{a \min}$	61 mm	Minimum diameter shaft shoulder
$d_{a \max}$	68 mm	Maximum diameter shaft shoulder
$D_{a \max}$	99 mm	Maximum diameter of housing shoulder
$d_{b \min}$	56 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 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	91,5 mm	Shoulder diameter outer ring
D_2	95,13 mm	Caliber diameter outer ring
d_1	71,44 mm	Shoulder diameter inner ring
d_2	65,87 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	2,59	Dynamic axial load factor
Y_2	4,01	Dynamic axial load factor
Y_0	2,72	Static axial load factor

Additional information

H2310

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