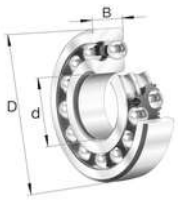
View product details on medias

26.12.2024, 06:20:41 UTC

SCHAEFFLER



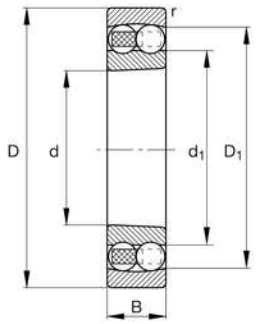
FAG

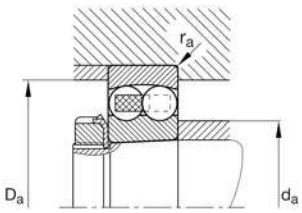
2310-K-TVH-C3

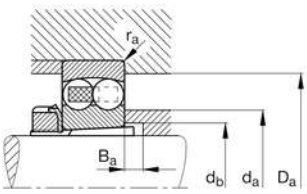
Self-aligning ball bearing

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
Sealing	Without	Not sealed
Cage	TVH	Solid cage made of glass-fiber reinforced polyamid PA66
Tolerance class	PN	Normal (PN)
Lubricant	Without	Bearing not greased
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
C_r	66,000 N	Basic dynamic load rating, radial
C_{0r}	20,200 N	Basic static load rating, radial
C_{ur}	1,280 N	Fatigue load limit, radial
n_G	6,300 1/min	Limiting speed
$n_{\vartheta r}$	7,600 1/min	Reference speed
≈m	1.554 kg	Weight

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

Mounting dimensions

$d_{a\ min}$	61 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	63 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	91.44 mm	Shoulder diameter outer ring
d_1	65.86 mm	Shoulder diameter inner ring

Temperature range

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

Calculation factors

e	0.43	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	1.46	Dynamic axial load factor
Y_2	2.27	Dynamic axial load factor
Y_0	1.53	Static axial load factor

Additional information

	H2310	Adapter sleeve

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

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

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