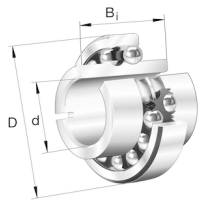


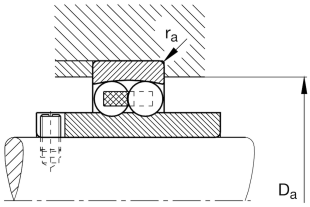
FAG

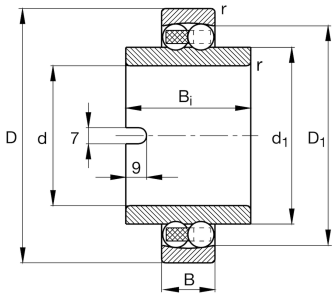
11205-TVH

Self-aligning ball bearing

Self-aligning ball bearing 112..-TVH, plastic cage

Technical information





Your current product variant

Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66

Main Dimensions & Performance Data

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	44 mm	Total width
B_C	15 mm	Width, outer ring
B_i	44 mm	Width, inner ring
C_r	12,300 N	Basic dynamic load rating, radial
C_{0r}	3,300 N	Basic static load rating, radial
C_{ur}	209 N	Fatigue load limit, radial
n_G	15,500 1/min	Limiting speed
$n_{\vartheta r}$	13,400 1/min	Reference speed
≈m	0.221 kg	Weight

Mounting dimensions

$D_{a\ max}$	46.4 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	1 mm	Maximaler Hohlkehlradius

Dimensions

r_{min}	1 mm	Minimum chamfer dimension
D_1	43.6 mm	Shoulder diameter outer ring
d_1	33.3 mm	Shoulder diameter inner ring
b	7 mm	Width retaining slot
t	9 mm	Hight retaining slot

Temperature range

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

Calculation factors

e	0.27	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2.36	Dynamic axial load factor
Y_2	3.65	Dynamic axial load factor
Y_0	2.47	Static axial load factor

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