

**FAG****4207-BB-TVH**

Deep groove ball bearing

Deep groove ball bearing 42...-BB-TVH,
double row, plastic cage

Technical information



Your current product variant

Design variant	B	Bearing without filling slot
Tolerance class	PN	Normal (ISO 492:2023)
Changed internal design	B	B
Cage	TVH	Solid cage made of glass-fiber reinforced polyamid PA66
Lubricant	GA13	Ball bearing and insert bearing grease
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Radial internal clearance	CN (Group N)	Normal internal clearance

Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
C_r	39,500 N	Basic dynamic load rating, radial
C_{0r}	30,000 N	Basic static load rating, radial
C_{ur}	1,570 N	Fatigue load limit, radial
n_G	9,300 1/min	Limiting speed
n_{gr}	8,700 1/min	Reference speed
$\approx m$	0.391 kg	Weight



Mounting dimensions

$d_{a \min}$	42 mm	Minimum diameter shaft shoulder
$D_{a \max}$	65 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

Dimensions

r_{\min}	1.1 mm	Minimum chamfer dimension
D_1	60.6 mm	Shoulder diameter outer ring
d_1	46.3 mm	Shoulder diameter inner ring

Temperature range

T_{\min}	-20 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Calculation factors

f_0	14.1	Calculation factor
-------	------	--------------------

Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Not sealed