

**FAG****4205-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	GA14	Ball bearing grease, low noise
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Radial internal clearance	CN (Group N)	Normal internal clearance

## Main Dimensions &amp; Performance Data

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
$C_r$	22.900 N	Basic dynamic load rating, radial
$C_{0r}$	15.700 N	Basic static load rating, radial
$C_{ur}$	820 N	Fatigue load limit, radial
$n_G$	13.100 1/min	Limiting speed
$n_{gr}$	11.200 1/min	Reference speed
$\approx m$	0,156 kg	Weight



### Mounting dimensions

$d_{a \min}$	30,6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	46,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	43,79 mm	Shoulder diameter outer ring
$d_1$	33,55 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	13,8	Calculation factor
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### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Not sealed