

**FAG****4200-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 (PN)
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	10 mm	Bore diameter
D	30 mm	Outside diameter
B	14 mm	Width
$C_r$	8.300 N	Basic dynamic load rating, radial
$C_{0r}$	4.750 N	Basic static load rating, radial
$C_{ur}$	247 N	Fatigue load limit, radial
$n_G$	25.500 1/min	Limiting speed
$n_{gr}$	21.600 1/min	Reference speed
$\approx m$	0,05 kg	Weight



### Mounting dimensions

$d_{a \min}$	14,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	25,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$D_1$	23,08 mm	Shoulder diameter outer ring
$d_1$	16,6 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	13,1	Calculation factor
-------	------	--------------------

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Not sealed