

**FAG****3205-BD-XL-TVH**

Angular contact ball bearing

Angular contact ball bearing 32...BD-XL-TVH,  
double row, X-life, plastic cage**X-life**

## Technical information



## Your current product variant

Design variant	B	Bearing without filling slot
Changed internal design	D	D
Sealing	Without	Not sealed
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Without	Bearing not greased
Axial internal clearance	CN	Group N (CN)

## Main Dimensions &amp; Performance Data

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	20.6 mm	Width
C <sub>r</sub>	22,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	15,200 N	Basic static load rating, radial
C <sub>ur</sub>	1,050 N	Fatigue load limit, radial
n <sub>G</sub>	14,300 1/min	Limiting speed
n <sub>gr</sub>	12,500 1/min	Reference speed
m	0.164 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
$D_1$	45.1 mm	Shoulder diameter outer ring
$D_2$	47.62 mm	Caliber diameter outer ring
$d_1$	35.8 mm	Shoulder diameter inner ring
$d_2$	34.23 mm	Caliber diameter inner ring
$a$	30.8 mm	Distance between the apexes of the pressure cones
$\alpha$	30 °	Contact angle

### Temperature range

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

### Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed