

**FAG****3303-BD-XL-2HRS-TVH**

Angular contact ball bearing

Angular contact ball bearing 33.-BD-XL-2HRS-TVH, double row, X-life, seals, plastic cage

**X-life**

## Technical information

**Your current product variant**

Design variant	B	Bearing without filling slot
Changed internal design	D	D
Sealing	2HRS	Contact seal on both sides
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	GA13	Ball bearing and insert bearing grease
Axial internal clearance	CN	Group N (CN)

**Main Dimensions & Performance Data**

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	22.2 mm	Width
C <sub>r</sub>	22,500 N	Basic dynamic load rating, radial
C <sub>0r</sub>	13,100 N	Basic static load rating, radial
C <sub>ur</sub>	910 N	Fatigue load limit, radial
n <sub>G</sub>	12,400 1/min	Limiting speed
≈m	0.177 kg	Weight



### Mounting dimensions

$d_{a \min}$	22.6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	41.4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	38.97 mm	Shoulder diameter outer ring
$D_2$	41.13 mm	Caliber diameter outer ring
$d_1$	28.52 mm	Shoulder diameter inner ring
$d_2$	27.14 mm	Caliber diameter inner ring
$a$	27.5 mm	Distance between the apexes of the pressure cones
$\alpha$	30 °	Contact angle

### Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

### Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides