

**FAG****X-life****3309-BD-XL-TVH-C3**

Angular contact ball bearing

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

## 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	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased
Axial internal clearance	C3	Group 3 (C3), bigger than CN

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39.7 mm	Width
C <sub>r</sub>	72,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	54,000 N	Basic static load rating, radial
C <sub>ur</sub>	3,700 N	Fatigue load limit, radial
n <sub>G</sub>	7,300 1/min	Limiting speed
n <sub>gr</sub>	6,700 1/min	Reference speed
m	1.31 kg	Weight



### Mounting dimensions

$d_{a \min}$	54 mm	Minimum diameter shaft shoulder
$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1.5 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1.5 mm	Minimum chamfer dimension
$D_1$	84.39 mm	Shoulder diameter outer ring
$d_1$	65.45 mm	Shoulder diameter inner ring
$a$	57.8 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