

**FAG****X-life****3304-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	SN	Rings dimensional stabilized up to 120°
Lubricant	Without	Bearing not greased
Axial internal clearance	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	22.2 mm	Width
C _r	24,600 N	Basic dynamic load rating, radial
C _{0r}	15,900 N	Basic static load rating, radial
C _{ur}	1,100 N	Fatigue load limit, radial
n _G	14,700 1/min	Limiting speed
n _{gr}	10,400 1/min	Reference speed
m	0.206 kg	Weight



Mounting dimensions

$d_{a \min}$	27 mm	Minimum diameter shaft shoulder
$D_{a \max}$	45 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

Dimensions

r_{\min}	1.1 mm	Minimum chamfer dimension
D_1	43.98 mm	Shoulder diameter outer ring
D_2	46.14 mm	Caliber diameter outer ring
d_1	33.52 mm	Shoulder diameter inner ring
d_2	31.94 mm	Caliber diameter inner ring
a	30.4 mm	Distance between the apexes of the pressure cones
α	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