

**FAG****X-life****3316-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	Class6 (P6), better than PN
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	80 mm	Bore diameter
D	170 mm	Outside diameter
B	68,3 mm	Width
C _r	199.000 N	Basic dynamic load rating, radial
C _{0r}	180.000 N	Basic static load rating, radial
C _{ur}	11.100 N	Fatigue load limit, radial
n _G	3.950 1/min	Limiting speed
n _{gr}	4.300 1/min	Reference speed
m	6,12 kg	Weight



Mounting dimensions

$d_{a \min}$	92 mm	Minimum diameter shaft shoulder
$D_{a \max}$	158 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum fillet radius

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	148,04 mm	Shoulder diameter outer ring
d_1	116,67 mm	Shoulder diameter inner ring
a	100,8 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