

**FAG****X-life****3311-BD-XL-2Z-TVH-L140-C3**

Angular contact ball bearing

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

Technical information

**Your current product variant**

Design variant	B	Bearing without filling slot
Changed internal design	D	D
Sealing	2Z	Non-contact shield 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	S0	Rings dimensional stabilized up to 150°
Lubricant	L140	Grease (L140/customer specific)
Axial internal clearance	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	49,2 mm	Width
C _r	116.000 N	Basic dynamic load rating, radial
C _{0r}	88.000 N	Basic static load rating, radial
C _{ur}	6.100 N	Fatigue load limit, radial
n _G	4.350 1/min	Limiting speed
n _{gr}	5.900 1/min	Reference speed
m	2,302 kg	Weight



Mounting dimensions

$d_{a \min}$	66 mm	Minimum diameter shaft shoulder
$D_{a \max}$	109 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius

Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	103,3 mm	Shoulder diameter outer ring
D_2	106,78 mm	Caliber diameter outer ring
d_1	78,77 mm	Shoulder diameter inner ring
d_2	76,35 mm	Caliber diameter inner ring
a	71,4 mm	Distance between the apexes of the pressure cones
α	30 °	Contact angle

Temperature range

T_{\min}	-20 °C	Operating temperature min.
T_{\max}	120 °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