



FAG



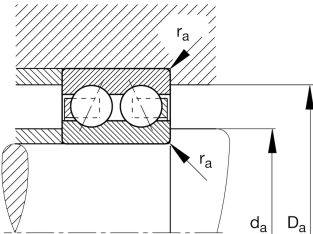
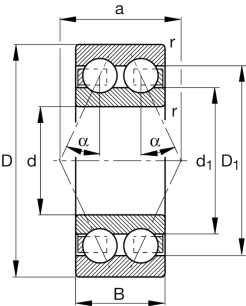
X-life

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
Sealing	Without	Not sealed
Cage	TVH	Solid cage made of glass-fiber reinforced polyamid 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

n.r.

	D	Design variant
≈m	1.31 kg	Weight



Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39.7 mm	Width
C _r	72,000 N	Basic dynamic load rating, radial
C _{0r}	54,000 N	Basic static load rating, radial
C _{ur}	3,700 N	Fatigue load limit, radial
n _G	7,300 1/min	Limiting speed
n _{gr}	6,700 1/min	Reference speed

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
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