



FAG



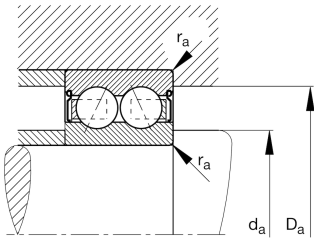
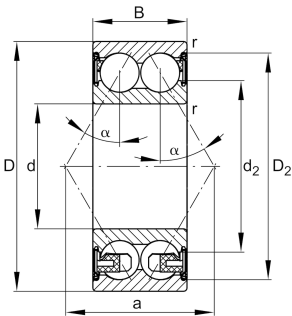
3211-BD-XL-2Z-TVH

Angular contact ball bearing

Angular contact ball bearing 32...BD-XL-2Z-TVH, double row, X-life, shields, plastic cage

X-life

Technical information



Your current product variant

Design variant	B	Bearing without filling slot
Changed internal design	D	D
Type of Seal	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	GA13	Ball bearing and insert bearing grease
Axial internal clearance	CN	Group N (CN)

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	33.3 mm	Width
C _r	61,000 N	Basic dynamic load rating, radial
C _{0r}	51,000 N	Basic static load rating, radial
C _{ur}	3,550 N	Fatigue load limit, radial
n _G	5,300 1/min	Limiting speed
n _{gr}	7,200 1/min	Reference speed
m	0.95 kg	Weight



Mounting dimensions

$d_{a\ min}$	64 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	87.78 mm	Shoulder diameter outer ring
D_2	90.78 mm	Caliber diameter outer ring
d_1	71.6 mm	Shoulder diameter inner ring
d_2	69.18 mm	Caliber diameter inner ring
a	58.4 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