

**FAG****3314-BD-XL**

Angular contact ball bearing

Angular contact ball bearing 33..-BD-XL,  
double row, X-life, steel sheet metal cage**X-life**

## Technical information



## Your current product variant

Design variant	B	Bearing without filling slot
Changed internal design	D	D
Sealing	Without	Not sealed
Cage	JH	Steel sheet metal
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased
Axial internal clearance	CN	Group N (CN)

## Main Dimensions &amp; Performance Data

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	63,5 mm	Width
$C_r$	172.000 N	Basic dynamic load rating, radial
$C_{0r}$	135.000 N	Basic static load rating, radial
$C_{ur}$	8.900 N	Fatigue load limit, radial
$n_G$	4.550 1/min	Limiting speed
$n_{gr}$	5.100 1/min	Reference speed
$\approx m$	4,59 kg	Weight



### Mounting dimensions

$d_{a \min}$	82 mm	Minimum diameter shaft shoulder
$D_{a \max}$	138 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	129,2 mm	Shoulder diameter outer ring
$d_1$	100,27 mm	Shoulder diameter inner ring
$a$	89,4 mm	Distance between the apexes of the pressure cones
$\alpha$	30 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	150 °C	Operating temperature max.

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed