

**FAG****3313-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 & Performance Data

d	65 mm	Bore diameter
D	140 mm	Outside diameter
B	58,7 mm	Width
C_r	150.000 N	Basic dynamic load rating, radial
C_{0r}	119.000 N	Basic static load rating, radial
C_{ur}	8.100 N	Fatigue load limit, radial
n_G	4.900 1/min	Limiting speed
n_{gr}	5.300 1/min	Reference speed
$\approx m$	3,69 kg	Weight



Mounting dimensions

$d_{a \min}$	77 mm	Minimum diameter shaft shoulder
$D_{a \max}$	128 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	120,48 mm	Shoulder diameter outer ring
D_2	124,92 mm	Caliber diameter outer ring
d_1	93,4 mm	Shoulder diameter inner ring
d_2	90,58 mm	Caliber diameter inner ring
a	83,5 mm	Distance between the apexes of the pressure cones
α	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