

**FAG****3309-BD-XL-C3**

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
Type of Sealing	Without	Not sealed
Cage	JH	Steel sheet metal
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

## Main Dimensions &amp; 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
$\approx m$	1,31 kg	Weight



### 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
$\alpha$	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