

**FAG****3309-BD-XL-2Z**

Angular contact ball bearing



Angular contact ball bearing 33.-BD-XL-2Z, double row, X-life, shields, 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 Seal	2Z	Non-contact shield on both sides
Cage	JH	Steel sheet metal
Tolerance class	P6	Class6 (P6), better than PN
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 &amp; Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39,7 mm	Width
C <sub>r</sub>	72.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	54.000 N	Basic static load rating, radial
C <sub>ur</sub>	3.700 N	Fatigue load limit, radial
n <sub>G</sub>	5.500 1/min	Limiting speed
n <sub>gr</sub>	6.700 1/min	Reference speed
≈m	1,36 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
$D_2$	87,32 mm	Caliber diameter outer ring
$d_1$	65,45 mm	Shoulder diameter inner ring
$d_2$	63,25 mm	Caliber diameter inner ring
$a$	57,8 mm	Distance between the apexes of the pressure cones
$\alpha$	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