

**FAG****3209-BD-XL-2Z-C3**

Angular contact ball bearing

Angular contact ball bearing 32..-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
Sealing	2Z	Non-contact shield on both sides
Cage	JH	Steel sheet metal
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	GA13	Ball bearing and insert bearing grease
Axial internal clearance	C3	Group 3 (C3), bigger than CN

## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	30,2 mm	Width
C <sub>r</sub>	50.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	39.000 N	Basic static load rating, radial
C <sub>ur</sub>	2.700 N	Fatigue load limit, radial
n <sub>G</sub>	6.300 1/min	Limiting speed
n <sub>gr</sub>	8.400 1/min	Reference speed
≈m	0,639 kg	Weight



### Mounting dimensions

$d_{a \min}$	52 mm	Minimum diameter shaft shoulder
$D_{a \max}$	78 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$D_1$	75,1 mm	Shoulder diameter outer ring
$D_2$	78,09 mm	Caliber diameter outer ring
$d_1$	59,9 mm	Shoulder diameter inner ring
$d_2$	57,73 mm	Caliber diameter inner ring
$a$	50,3 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