

**FAG****3305-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
Sealing	Without	Not sealed
Cage	JH	Steel sheet metal
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Without	Bearing not greased
Axial internal clearance	C3	Group 3 (C3), bigger than CN

## Main Dimensions &amp; Performance Data

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	25,4 mm	Width
$C_r$	31.500 N	Basic dynamic load rating, radial
$C_{0r}$	21.000 N	Basic static load rating, radial
$C_{ur}$	1.460 N	Fatigue load limit, radial
$n_G$	12.400 1/min	Limiting speed
$n_{gr}$	9.400 1/min	Reference speed
$\approx m$	0,348 kg	Weight



### Mounting dimensions

$d_{a \min}$	32 mm	Minimum diameter shaft shoulder
$D_{a \max}$	55 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$D_1$	51,47 mm	Shoulder diameter outer ring
$D_2$	53,72 mm	Caliber diameter outer ring
$d_1$	39,5 mm	Shoulder diameter inner ring
$d_2$	37,63 mm	Caliber diameter inner ring
$a$	35,4 mm	Distance between the apexes of the pressure cones
$\alpha$	30 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

### Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed