

**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
Type of Sealing	Without	Not sealed
Cage	JH	Steel sheet metal
Tolerance class	P6	Class6 (P6), better than PN
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 & 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
≈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
α	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