

**FAG****3205-BD-XL-C3**

Angular contact ball bearing

Angular contact ball bearing 32..-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 Seal	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	52 mm	Outside diameter
B	20,6 mm	Width
C _r	22.000 N	Basic dynamic load rating, radial
C _{0r}	15.200 N	Basic static load rating, radial
C _{ur}	1.050 N	Fatigue load limit, radial
n _G	14.300 1/min	Limiting speed
n _{gr}	12.500 1/min	Reference speed
≈m	0,169 kg	Weight



Mounting dimensions

$d_{a \min}$	30,6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	46,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius







Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
D_1	45,1 mm	Shoulder diameter outer ring
D_2	47,62 mm	Caliber diameter outer ring
d_1	35,8 mm	Shoulder diameter inner ring
d_2	34,23 mm	Caliber diameter inner ring
a	30,8 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