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SCHAEFFLER

FAG

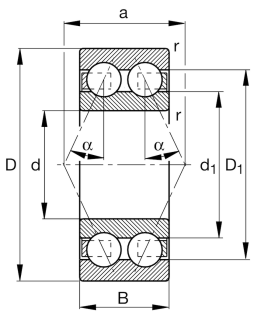
3309-BD-XL-C3

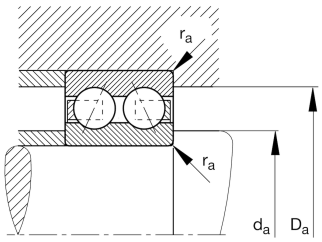
Angular contact ball bearing

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	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased
Axial internal clearance	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39,7 mm	Width
C_r	72.000 N	Basic dynamic load rating, radial
C_{0r}	54.000 N	Basic static load rating, radial
C_{ur}	3.700 N	Fatigue load limit, radial
n_G	7.300 1/min	Limiting speed
$n_{\vartheta r}$	6.700 1/min	Reference speed
≈m	1,31 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_1	65,45 mm	Shoulder diameter inner ring
a	57,8 mm	Distance between the apexes of the pressure cones
α	30 °	Contact angle

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	150 °C	Operating temperature max.

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed