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SCHAEFFLER

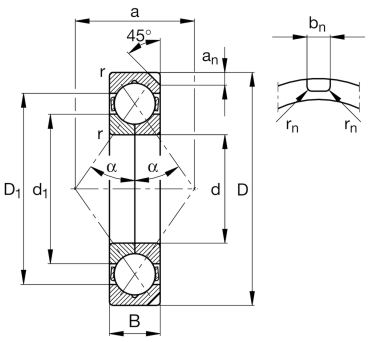
FAG

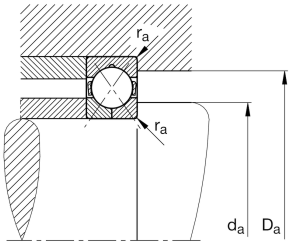
QJ320-N2-MPA-C3

Four-point contact bearing

Four point contact bearing QJ3..-N2-MPA, holding grooves, solid brass cage

Technical information





Your current product variant

Design, bearing outer ring	N2	Two retaining grooves in the outer ring on one side
Cage	MPA	Solid brass cage, outer ring guided
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Axial internal clearance	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	47 mm	Width
C_r	325.000 N	Basic dynamic load rating, radial
C_{0r}	365.000 N	Basic static load rating, radial
C_{ur}	16.800 N	Fatigue load limit, radial
n_G	5.400 1/min	Limiting speed
$n_{\vartheta r}$	3.000 1/min	Reference speed
≈m	8,7 kg	Weight

Mounting dimensions

$d_{a\ min}$	114 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	201 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2,5 mm	Maximum fillet radius

Dimensions

r_{min}	3 mm	Minimum chamfer dimension
D_1	176,6 mm	Shoulder diameter outer ring
d_1	138,98 mm	Shoulder diameter inner ring
a	110,3 mm	Distance between the apexes of the pressure cones
a_n	11,7 mm	Hight retaining slot
b_n	10,5 mm	Width retaining slot
r_n	2 mm	Radius retaining slot
	45 °	Angle retaining slot
α	35 °	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