

**FAG****QJ1088-N2-MPA-C3**

Four-point contact bearing

Four point contact bearing QJ10..-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
Tolerance class	PN	Normal (ISO 492:2023)
Cage	MPA	Solid brass cage, outer ring guided
Dimensional / heat stabilization	S1	Rings dimensional stabilized up to 200°
Axial internal clearance	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	440 mm	Bore diameter
D	650 mm	Outside diameter
B	94 mm	Width
C_r	970.000 N	Basic dynamic load rating, radial
C_{0r}	2.400.000 N	Basic static load rating, radial
C_{ur}	57.000 N	Fatigue load limit, radial
n_G	1.620 1/min	Limiting speed
n_{gr}	690 1/min	Reference speed
$\approx m$	114 kg	Weight

Mounting dimensions

$d_{a \text{ min}}$	463 mm	Minimum diameter shaft shoulder
$D_{a \text{ max}}$	627 mm	Maximum diameter of housing shoulder
$r_{a \text{ max}}$	5 mm	Maximum fillet radius



Dimensions

r_{\min}	6 mm	Minimum chamfer dimension
D_1	579,1 mm	Shoulder diameter outer ring
d_1	514,05 mm	Shoulder diameter inner ring
a	381,6 mm	Distance between the apexes of the pressure cones
a_n	20 mm	Height retaining slot
b_n	15,5 mm	Width retaining slot
r_n	3 mm	Radius retaining slot
	45 °	Angle retaining slot
α	35 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.

Characteristics

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