

**FAG****QJ1096-N2-MPA**

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	CN	Group N (CN)

Main Dimensions & Performance Data

d	480 mm	Bore diameter
D	700 mm	Outside diameter
B	100 mm	Width
C_r	1.060.000 N	Basic dynamic load rating, radial
C_{0r}	2.800.000 N	Basic static load rating, radial
C_{ur}	62.000 N	Fatigue load limit, radial
n_G	1.490 1/min	Limiting speed
n_{gr}	620 1/min	Reference speed
$\approx m$	138 kg	Weight

Mounting dimensions

$d_{a \min}$	503 mm	Minimum diameter shaft shoulder
$D_{a \max}$	677 mm	Maximum diameter of housing shoulder
$r_{a \max}$	5 mm	Maximum fillet radius



Dimensions

r_{\min}	6 mm	Minimum chamfer dimension
D_1	625,8 mm	Shoulder diameter outer ring
d_1	557,75 mm	Shoulder diameter inner ring
a	413,1 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