

**FAG****QJ1024-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	S0	Rings dimensional stabilized up to 150°
Axial internal clearance	CN	Group N (CN)

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	28 mm	Width
C_r	145.000 N	Basic dynamic load rating, radial
C_{0r}	200.000 N	Basic static load rating, radial
C_{ur}	8.500 N	Fatigue load limit, radial
n_G	6.500 1/min	Limiting speed
n_{gr}	3.100 1/min	Reference speed
$\approx m$	2,707 kg	Weight

Mounting dimensions

$d_{a \min}$	129 mm	Minimum diameter shaft shoulder
$D_{a \max}$	171 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius



Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	159,15 mm	Shoulder diameter outer ring
d_1	141,3 mm	Shoulder diameter inner ring
a	105 mm	Distance between the apexes of the pressure cones
a_n	6,5 mm	Height retaining slot
b_n	6,5 mm	Width retaining slot
r_n	0,5 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