

**FAG****QJ220-N2-MPA**

Four-point contact bearing

Four point contact bearing QJ2..-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	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width
C _r	224.000 N	Basic dynamic load rating, radial
C _{0r}	241.000 N	Basic static load rating, radial
C _{ur}	11.500 N	Fatigue load limit, radial
n _G	6.600 1/min	Limiting speed
n _{gr}	3.550 1/min	Reference speed
≈m	3,89 kg	Weight

Mounting dimensions

d _{a min}	112 mm	Minimum diameter shaft shoulder
D _{a max}	168 mm	Maximum diameter of housing shoulder
r _{a max}	2,1 mm	Maximum fillet radius









Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	153,6 mm	Shoulder diameter outer ring
d_1	127,74 mm	Shoulder diameter inner ring
a	98 mm	Distance between the apexes of the pressure cones
a_n	10,1 mm	Hight retaining slot
b_n	8,5 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