

**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
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	CN	Group N (CN)

## Main Dimensions &amp; Performance Data

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width
C <sub>r</sub>	224.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	241.000 N	Basic static load rating, radial
C <sub>ur</sub>	11.500 N	Fatigue load limit, radial
n <sub>G</sub>	6.600 1/min	Limiting speed
n <sub>gr</sub>	3.550 1/min	Reference speed
≈m	3,89 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	112 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	168 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	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
$\alpha$	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