

**FAG****QJ220-N2-MPA-C3**

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	C3	Group 3 (C3), bigger than 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