

**FAG****QJ310-XL-N2-MPA**

Four-point contact bearing

Four point contact bearing QJ3.-XL-N2-MPA,  
X-life, holding grooves, solid brass cage**X-life**

## 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 &amp; Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
C <sub>r</sub>	115.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	92.000 N	Basic static load rating, radial
C <sub>ur</sub>	6.800 N	Fatigue load limit, radial
n <sub>G</sub>	12.500 1/min	Limiting speed
n <sub>gr</sub>	5.400 1/min	Reference speed
≈m	1,308 kg	Weight



### Mounting dimensions

$d_{a \min}$	61 mm	Minimum diameter shaft shoulder
$D_{a \max}$	99 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$D_1$	89,55 mm	Shoulder diameter outer ring
$d_1$	70,5 mm	Shoulder diameter inner ring
$a$	56 mm	Distance between the apexes of the pressure cones
$a_n$	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
$\alpha$	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