

**FAG****QJ314-XL-N2-MPA-C3**

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	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
C_r	198.000 N	Basic dynamic load rating, radial
C_{0r}	165.000 N	Basic static load rating, radial
C_{ur}	11.800 N	Fatigue load limit, radial
n_G	8.900 1/min	Limiting speed
n_{gr}	4.200 1/min	Reference speed
$\approx m$	3,134 kg	Weight



Mounting dimensions

$d_{a \min}$	82 mm	Minimum diameter shaft shoulder
$D_{a \max}$	138 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	123,6 mm	Shoulder diameter outer ring
d_1	97,7 mm	Shoulder diameter inner ring
a	77 mm	Distance between the apexes of the pressure cones
a_n	10,1 mm	Height 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