



FAG

QJ314-XL-N2-MPA

Four-point contact bearing

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

X-life

Informacje techniczne



Twoja aktualna wersja produktu

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	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

≈m	3,134 kg	Masa
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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	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.

Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia