



FAG

QJ309-XL-N2-MPA-T42A

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	T42A	Special axial clearance T42A, smaller than T42B

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C _r	100.000 N	Basic dynamic load rating, radial
C _{0r}	75.000 N	Basic static load rating, radial
C _{ur}	5.700 N	Fatigue load limit, radial
n _G	13.700 1/min	Limiting speed
n _{gr}	5.900 1/min	Reference speed
≈m	0,98 kg	Masa



Mounting dimensions

$d_{a\min}$	54 mm	Minimum diameter shaft shoulder
$D_{a\max}$	91 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1,5 mm	Maximum fillet radius

Dimensions

$r_{\min}$	1,5 mm	Minimum chamfer dimension
D_1	81,65 mm	Shoulder diameter outer ring
d_1	63,35 mm	Shoulder diameter inner ring
a	50,8 mm	Distance between the apexes of the pressure cones
a_n	5 mm	Hight retaining slot
b_n	6,5 mm	Width retaining slot
r_n	0,5 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