



FAG

QJ311-XL-MPA

Four-point contact bearing

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

X-life

Technical information



Your current product variant

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	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
C_r	133,000 N	Basic dynamic load rating, radial
C_{0r}	108,000 N	Basic static load rating, radial
C_{ur}	8,100 N	Fatigue load limit, radial
n_G	11,400 1/min	Limiting speed
n_{gr}	5,000 1/min	Reference speed
m	1.685 kg	Weight

Mounting dimensions

$d_{a \min}$	66 mm	Minimum diameter shaft shoulder
$D_{a \max}$	109 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius



Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	97.8 mm	Shoulder diameter outer ring
d_1	77.2 mm	Shoulder diameter inner ring
a	61.3 mm	Distance between the apexes of the pressure cones
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