



FAG

QJ310-XL-MPA-C3

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	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
C_r	115.000 N	Basic dynamic load rating, radial
C_{0r}	92.000 N	Basic static load rating, radial
C_{ur}	6.800 N	Fatigue load limit, radial
n_G	12.500 1/min	Limiting speed
n_{gr}	5.400 1/min	Reference speed
m	1,317 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
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