

**FAG****QJ218-XL-N2-MPA-C3**

Four-point contact bearing

Four point contact bearing QJ2..-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	90 mm	Bore diameter
D	160 mm	Outside diameter
B	30 mm	Width
C _r	181,000 N	Basic dynamic load rating, radial
C _{0r}	185,000 N	Basic static load rating, radial
C _{ur}	12,100 N	Fatigue load limit, radial
n _G	8,200 1/min	Limiting speed
n _{gr}	3,850 1/min	Reference speed
≈m	2.8 kg	Weight



Mounting dimensions

$d_{a \min}$	101 mm	Minimum diameter shaft shoulder
$D_{a \max}$	149 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius







Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	136.1 mm	Shoulder diameter outer ring
d_1	114.3 mm	Shoulder diameter inner ring
a	87.5 mm	Distance between the apexes of the pressure cones
a_n	8.1 mm	Height retaining slot
b_n	6.5 mm	Width retaining slot
r_n	1 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