

**FAG****QJ256-N2-MPA**

Four-point contact bearing

Four point contact bearing QJ2..-N2-MPA,
holding grooves, solid brass cage

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	S1	Rings dimensional stabilized up to 200°
Axial internal clearance	CN	Group N (CN)

Main Dimensions & Performance Data

d	280 mm	Bore diameter
D	500 mm	Outside diameter
B	80 mm	Width
C _r	870.000 N	Basic dynamic load rating, radial
C _{0r}	1.750.000 N	Basic static load rating, radial
C _{ur}	49.000 N	Fatigue load limit, radial
n _G	2.210 1/min	Limiting speed
n _{gr}	1.000 1/min	Reference speed
≈m	73,1 kg	Weight

Mounting dimensions

d _{a min}	300 mm	Minimum diameter shaft shoulder
D _{a max}	480 mm	Maximum diameter of housing shoulder
r _{a max}	4 mm	Maximum fillet radius



Dimensions

r_{\min}	5 mm	Minimum chamfer dimension
D_1	421,8 mm	Shoulder diameter outer ring
d_1	358,5 mm	Shoulder diameter inner ring
a	273,1 mm	Distance between the apexes of the pressure cones
a_n	15 mm	Height retaining slot
b_n	12,5 mm	Width retaining slot
r_n	2,5 mm	Radius retaining slot
	45 °	Angle retaining slot
α	35 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.

Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing