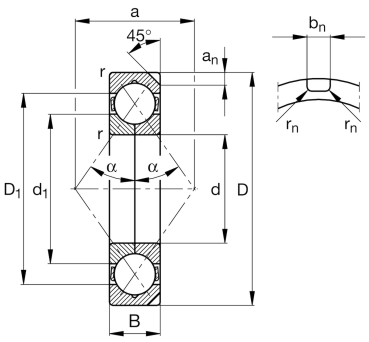
FAG

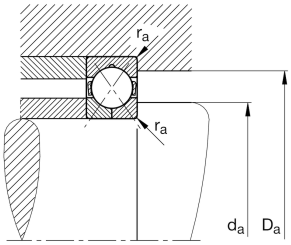
QJ256-N2-MPA

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
$n_{\vartheta r}$	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	Hight 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