

# ISB QJ 248 N2 angular contact ball bearings

LET OUR ISB QJ 248 N2 angular contact ball bearings EXPERTS GET 125x100x13 Size (mm) YOU THE PARTS YOU NEED.

Size (mm)	125x100x13
Bore Diameter (mm)	125
Outer Diameter (mm)	100
Width (mm)	13
d	100 mm
D	125 mm
B	13 mm
d1	108.2 mm
d2	108.2 mm
D1	117 mm
r1,2 – min.	1 mm
r3,4 – min.	0.3 mm
a	32.8 mm
da – min.	104.6 mm
db – min.	104.6 mm
Da – max.	120.4 mm
Db – max.	123 mm
ra – max.	1 mm
rb – max.	0.3 mm
dn	109.1 mm
Basic dynamic load rating – C	21.2 kN
Basic static load rating – C0	27.5 kN
Fatigue load limit – Pu	1.1 kN

Limiting speed for grease lubrication	8500 r/min
Limiting speed for oil lubrication	13000 mm/min
Ball – Dw	7.144 mm
Ball – z	34
Gref	3.2 cm <sup>3</sup>
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	190 N
Preload class B – GB	570 N
Preload class C – GC	1140 N
Calculation factor – f	1.4
Calculation factor – f1	0.97
Calculation factor – f2A	1
Calculation factor – f2B	1.08
Calculation factor – f2C	1.15
Calculation factor – fHC	1
Preload class A	211 N/micron
Preload class B	335 N/micron
Preload class C	462 N/micron
r <sub>1,2</sub> min.	1 mm
r <sub>3,4</sub> min.	0.3 mm
d <sub>a</sub> min.	104.6 mm
d <sub>b</sub> min.	104.6 mm
D <sub>a</sub> max.	120.4 mm
D <sub>b</sub> max.	123 mm
r <sub>a</sub> max.	1 mm

rb max.	0.3 mm
Basic dynamic load rating C	21.2 kN
Basic static load rating C0	27.5 kN
Fatigue load limit Pu	1.1 kN
Attainable speed for grease lubrication	8500 r/min
Attainable speed for oil-air lubrication	13000 r/min
Ball diameter Dw	7.144 mm
Number of balls z	34
Reference grease quantity Gref	3.2 cm <sup>3</sup>
Preload class A GA	190 N
Static axial stiffness, preload class A	211 N/μm
Preload class B GB	570 N
Static axial stiffness, preload class B	335 N/μm
Preload class C GC	1140 N
Static axial stiffness, preload class C	462 N/μm
Calculation factor f	1.4
Calculation factor f1	0.97
Calculation factor f2A	1
Calculation factor f2B	1.08
Calculation factor f2C	1.15
Calculation factor fHC	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87
Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41

Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	0.31 kg