

NKE NU312-E-M6 cylindrical roller bearings

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Size (mm)	62x40x12
Bore Diameter (mm)	62
Outer Diameter (mm)	40
Width (mm)	12
d	40 mm
D	62 mm
B	12 mm
d1	48.46 mm
d2	47.6 mm
D2	55.64 mm
b	2 mm
C1	5.9 mm
C2	2.8 mm
C3	1.7 mm
r1,2 – min.	0.6 mm
r3,4 – min.	0.3 mm
a	20.2 mm
da – min.	43.2 mm
db – min.	43.2 mm
Da – max.	58.8 mm

Db – max.	60 mm
ra – max.	0.6 mm
rb – max.	0.3 mm
dn	49.1 mm
Basic dynamic load rating – C	5.1 kN
Basic static load rating – C0	4 kN
Fatigue load limit – Pu	0.166 kN
Limiting speed for grease lubrication	28000 r/min
Limiting speed for oil lubrication	43000 mm/min
Ball – Dw	3.969 mm
Ball – z	28
Gref	1.38 cm ³
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	31 N
Preload class B – GB	62 N
Preload class C – GC	185 N
Calculation factor – f	1.06
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.07
Calculation factor – fHC	1
Preload class A	65 N/micron
Preload class B	83 N/micron
Preload class C	124 N/micron

r _{1,2} min.	0.6 mm
r _{3,4} min.	0.3 mm
d _a min.	43.2 mm
d _b min.	43.2 mm
D _a max.	58.8 mm
D _b max.	60 mm
r _a max.	0.6 mm
r _b max.	0.3 mm
Basic dynamic load rating C	6.76 kN
Basic static load rating C ₀	6.4 kN
Fatigue load limit P _u	0.166 kN
Attainable speed for grease lubrication	28000 r/min
Attainable speed for oil-air lubrication	43000 r/min
Ball diameter D _w	3.969 mm
Number of balls z	28
Reference grease quantity G _{ref}	1.38 cm ³
Preload class A G _A	31 N
Static axial stiffness, preload class A	65 N/μm
Preload class B G _B	62 N
Static axial stiffness, preload class B	83 N/μm
Preload class C G _C	185 N
Static axial stiffness, preload class C	124 N/μm
Calculation factor f	1.06
Calculation factor f ₁	0.99
Calculation factor f _{2A}	1
Calculation factor f _{2B}	1.02
Calculation factor f _{2C}	1.07
Calculation factor f _{HC}	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	0.12 kg