

IKO BR 142212 needle roller bearings

IKO BR 142212 needle roller bearings Needs Analysis , Manufacturing 115x75x20 Size (mm) Service . Get Your Free.

Size (mm)	115x75x20
Bore Diameter (mm)	115
Outer Diameter (mm)	75
Width (mm)	20
d	75 mm
D	115 mm
B	20 mm
d1	90 mm
d2	88.2 mm
D2	102.8 mm
b	1.5 mm
C1	10.9 mm
C2	4.4 mm
C3	2.9 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	22.3 mm
da – min.	81 mm
db – min.	81 mm
Da – max.	109 mm
Db – max.	111.8 mm
ra – max.	1 mm
rb – max.	0.6 mm

dn	91.1 mm
Basic dynamic load rating – C	19.9 kN
Basic static load rating – C0	17.6 kN
Fatigue load limit – Pu	0.75 kN
Limiting speed for grease lubrication	16000 r/min
Limiting speed for oil lubrication	24000 mm/min
Ball – Dw	7.938 mm
Ball – z	30
Gref	7.7 cm ³
Calculation factor – f0	9.7
Preload class A – GA	65 N
Preload class B – GB	130 N
Preload class C – GC	390 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.05
Calculation factor – fHC	1
Preload class A	50 N/micron
Preload class B	65 N/micron
Preload class C	104 N/micron
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm
da min.	81 mm
db min.	81 mm
Da max.	109 mm
Db max.	111.8 mm
ra max.	1 mm
rb max.	0.6 mm

Basic dynamic load rating C	26.5 kN
Basic static load rating C ₀	29 kN
Fatigue load limit P _u	0.75 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter D _w	7.938 mm
Number of balls z	30
Reference grease quantity G _{ref}	7.7 cm ³
Preload class A G _A	65 N
Static axial stiffness, preload class A	50 N/μm
Preload class B G _B	130 N
Static axial stiffness, preload class B	65 N/μm
Preload class C G _C	390 N
Static axial stiffness, preload class C	104 N/μm
Calculation factor f	1.08
Calculation factor f ₁	1
Calculation factor f _{2A}	1
Calculation factor f _{2B}	1.02
Calculation factor f _{2C}	1.05
Calculation factor f _{HC}	1
Calculation factor f _θ	9.7
Mass bearing	0.7 kg