

# ISB 3205 ATN9 angular contact ball bearings

What are the dimensions of a ISB 3205 ATN9 angular contact ball bearings? 72 Bore Diameter (mm) Manufacturing Service . 55 Outer Diameter (mm) Get 72x55x9 Size (mm) Your Free, Instant Quote

Size (mm)	72x55x9
Bore Diameter (mm)	72
Outer Diameter (mm)	55
Width (mm)	9
d	55 mm
D	72 mm
B	9 mm
d1	60.7 mm
d2	60.7 mm
D1	66.5 mm
r1,2 – min.	0.3 mm
r3,4 – min.	0.15 mm
a	13 mm
da – min.	57 mm
db – min.	57 mm
Da – max.	70 mm
Db – max.	71.2 mm
ra – max.	0.3 mm
rb – max.	0.15 mm
dn	61.3 mm
Basic dynamic load rating – C	10.1 kN

Basic static load rating – C0	10.8 kN
Fatigue load limit – Pu	0.455 kN
Limiting speed for grease lubrication	18000 r/min
Limiting speed for oil lubrication	28000 mm/min
Ball – Dw	4.762 mm
Ball – z	29
Gref	0.88 cm <sup>3</sup>
Calculation factor – f0	17.1
Preload class A – GA	55 N
Preload class B – GB	165 N
Preload class C – GC	330 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.09
Calculation factor – f2C	1.16
Calculation factor – fHC	1
Preload class A	53 N/micron
Preload class B	91 N/micron
Preload class C	135 N/micron
r1,2 min.	0.3 mm
r3,4 min.	0.15 mm
da min.	57 mm
db min.	57 mm
Da max.	70 mm
Db max.	71.2 mm
ra max.	0.3 mm
rb max.	0.15 mm
Basic dynamic load rating C	10.1 kN
Basic static load rating C0	10.8 kN

Fatigue load limit $P_u$	0.455 kN
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls $z$	29
Reference grease quantity $G_{ref}$	0.88 cm <sup>3</sup>
Preload class A $G_A$	55 N
Static axial stiffness, preload class A	53 N/ $\mu$ m
Preload class B $G_B$	165 N
Static axial stiffness, preload class B	91 N/ $\mu$ m
Preload class C $G_C$	330 N
Static axial stiffness, preload class C	135 N/ $\mu$ m
Calculation factor $f$	1.27
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.09
Calculation factor $f_{2C}$	1.16
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	17.1
Mass bearing	0.081 kg