



## NTA PRECISION AXLE CORP.



70 mm x 100 mm x 16 mm SNR 71914CVUJ74  
angular contact ball bearings

Bearing No. 71914CVUJ74

71914CVUJ74 Bearing 2D drawings and 3D CAD  
models

Size	70x100x16 mm
Bore Diameter	70 mm
Outer Diameter	100 mm
Width	16 mm
d	70 mm
D	100 mm
B	16 mm
C	16 mm
Angle ( ° )	15 °
d1	80.1 mm
D1	89.9 mm
D2	93.49 mm
a	19 mm
Contact angle	15 °
rs min	1 mm
r1s min	0.3 mm
f0	16.63
Precision class	P4
Mass	0.34 kg
Dynamic load, C	23.7 kN
Static load, C0	24.3 kN
Fatigue limit load, Cu	1.32 kN
Nlim (oil)	21,000 rpm
Nlim (grease)	13,500 rpm
Axial displacement K Factor	1.07



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Preload level	7
Preload value	0.13 kN
Axial rigidity	69 N/ $\mu$ m
Radial rigidity	399 N/ $\mu$ m
Min operating temperature, T <sub>min</sub>	-30 ° C
Max operating temperature, T <sub>max</sub>	120 ° C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.62 Hz
Characteristic outer ring frequency, BPF0	10.92 Hz
Characteristic inner ring frequency, BRFI	13.08 Hz
da min	75.5 mm
db min	75.5 mm
Da max	94.5 mm
Db max	94.5 mm
r1a max	0.3 mm
ra max	1 mm
D6	82.6 mm