



# Icuc Corporation Japan

## NTN 7012UADG/GNP42U3G super-precision Angular contact ball bearings

Bearing No. 7012UADG/GNP42U3G

d	60 mm
D	95 mm
B	18 mm
d1	71.9 mm
d2	69.3 mm
D1	83.1 mm
D2	88.5 mm
a	27.2 mm
Contact angle	25 °
rs min	1.1 mm
r1s min	0.6 mm
f0	15.9
Precision class	P42
Mass	0.41 kg
Dynamic load, C	34.5 kN
Static load, C0	30.5 kN
Nlim (oil)	21,200 rpm
Nlim (grease)	13,100 rpm
Preload level	GN
Preload value	0.345 kN
Axial rigidity	188.8 N/ $\mu$ m
Radial rigidity	400 N/ $\mu$ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature, Tmax	120 ° C

7012UADG/GNP42U3G Bearing 2D drawings and 3D  
CAD models



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Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.4 Hz
Characteristic outer ring frequency, BPF0	8.79 Hz
Characteristic inner ring frequency, BRFI	11.21 Hz
da min	67 mm
Da max	88 mm
Db max	90.5 mm
r1a max	0.6 mm
ra max	1 mm
D6	72.4 mm