



BEARINGS(UK)LTD.

60 mm x 85 mm x 13 mm NTN
7912UCG/GNP42U3G High precision angular
contact ball bearings

Bearing No. 7912UCG/GNP42U3G

d	60 mm
D	85 mm
B	13 mm
d1	68.7 mm
d2	66.8 mm
D1	76.4 mm
D2	80.1 mm
a	16.3 mm
Contact angle	15 °
rs min	1 mm
r1s min	0.6 mm
f0	16.5
Precision class	P42
Mass	0.19 kg
Dynamic load, C	20.5 kN
Static load, C0	20.3 kN
Nlim (oil)	25,900 rpm
Nlim (grease)	16,200 rpm
Preload level	GN
Preload value	0.127 kN
Axial rigidity	71.1 N/ μ m
Radial rigidity	400 N/ μ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature,	120 ° C

7912UCG/GNP42U3G Bearing 2D drawings and 3D
CAD models



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Tmax	
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.06 Hz
Characteristic outer ring frequency, BPF0	11.31 Hz
Characteristic inner ring frequency, BRFI	13.69 Hz
da min	65.5 mm
Da max	79.5 mm
Db max	80.5 mm
r1a max	0.6 mm
ra max	1 mm
D6	69.1 mm