



BEARINGS(UK)LTD.

17 mm x 35 mm x 10 mm NTN
7003UCG/GNP42U3G High precision angular
contact ball bearings

Bearing No. 7003UCG/GNP42U3G

d	17 mm
D	35 mm
B	10 mm
d1	23 mm
d2	21.6 mm
D1	29 mm
D2	32 mm
a	8.5 mm
Contact angle	15 °
rs min	0.3 mm
r1s min	0.15 mm
f0	13.8
Precision class	P42
Mass	0.04 kg
Dynamic load, C	8.25 kN
Static load, C0	4.55 kN
Nlim (oil)	72,100 rpm
Nlim (grease)	45,100 rpm
Preload level	GN
Preload value	0.049 kN
Axial rigidity	29 N/ μ m
Radial rigidity	155.1 N/ μ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature,	120 ° C

7003UCG/GNP42U3G Bearing 2D drawings and 3D
CAD models



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Tmax	
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.48 Hz
Characteristic outer ring frequency, BPF0	4.36 Hz
Characteristic inner ring frequency, BRFI	6.64 Hz
da min	19.5 mm
Da max	32.5 mm
Db max	33.8 mm
r1a max	0.15 mm
ra max	0.3 mm
D6	23.3 mm