



BEARINGS(UK)LTD.

100 mm x 150 mm x 24 mm NTN
7020UCG/GNP42U3G High precision angular
contact ball bearings

Bearing No. 7020UCG/GNP42U3G

d	100 mm
D	150 mm
B	24 mm
d1	116.9 mm
d2	113 mm
D1	133.2 mm
D2	141.1 mm
a	28.8 mm
Contact angle	15 °
rs min	1.5 mm
r1s min	1 mm
f0	16
Precision class	P42
Mass	1.27 kg
Dynamic load, C	77.5 kN
Static load, C0	81 kN
Nlim (oil)	15,000 rpm
Nlim (grease)	9,400 rpm
Preload level	GN
Preload value	0.46 kN
Axial rigidity	126.1 N/ μ m
Radial rigidity	730 N/ μ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature,	120 ° C

7020UCG/GNP42U3G Bearing 2D drawings and 3D
CAD models



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Tmax	
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.18 Hz
Characteristic outer ring frequency, BPF0	10.16 Hz
Characteristic inner ring frequency, BRFI	12.84 Hz
da min	108.5 mm
Da max	141.5 mm
Db max	144.5 mm
r1a max	1 mm
ra max	1.5 mm
D6	116.9 mm