



BEARINGS(UK)LTD.

45 mm x 75 mm x 16 mm NTN
7009UADG/GNP42U3G High precision angular
contact ball bearings

Bearing No. 7009UADG/GNP42U3G

d	45 mm
D	75 mm
B	16 mm
d1	55.3 mm
d2	53 mm
D1	64.7 mm
D2	69.3 mm
a	22.1 mm
Contact angle	25 °
rs min	1 mm
r1s min	0.6 mm
f0	15.6
Precision class	P42
Mass	0.24 kg
Dynamic load, C	24 kN
Static load, C0	19.4 kN
Nlim (oil)	27,300 rpm
Nlim (grease)	16,900 rpm
Preload level	GN
Preload value	0.245 kN
Axial rigidity	149.5 N/ μ m
Radial rigidity	315 N/ μ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature,	120 ° C

7009UADG/GNP42U3G Bearing 2D drawings and 3D
CAD models



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Tmax	
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.76 Hz
Characteristic outer ring frequency, BPF0	7.81 Hz
Characteristic inner ring frequency, BRFI	10.19 Hz
da min	50.5 mm
Da max	69.5 mm
Db max	70.5 mm
r1a max	0.6 mm
ra max	1 mm
D6	55.9 mm