



BEARINGS(UK)LTD.

17 mm x 35 mm x 10 mm SNR 7003.HV.U.J74
High precision angular contact ball bearings

Bearing No. 7003.HV.U.J74

d	17 mm
D	35 mm
B	10 mm
d1	22.65 mm
D1	29.4 mm
D2	31.52 mm
a	11 mm
Contact angle	25 °
rs min	0.3 mm
r1s min	0.3 mm
f0	13.93
Precision class	P4
Mass	0.04 kg
Dynamic load, C	6.6 kN
Static load, C0	4 kN
Fatigue limit load, Cu	0.22 kN
Nlim (oil)	62,000 rpm
Nlim (grease)	40,000 rpm
Axial displacement K Factor	0.92
Preload level	7
Preload value	0.06 kN
Axial rigidity	61 N/ μ m
Radial rigidity	130 N/ μ m
Min operating temperature, Tmin	-30 ° C
Max operating temperature,	120 ° C

7003.HV.U.J74 Bearing 2D drawings and 3D CAD models



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Tmax	
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.31 Hz
Characteristic outer ring frequency, BPF0	5.84 Hz
Characteristic inner ring frequency, BRFI	8.16 Hz
da min	19.5 mm
db min	19.5 mm
Da max	32.5 mm
Db max	32.5 mm
r1a max	0.3 mm
ra max	0.3 mm
D6	24.4 mm