



BEARINGS(UK)LTD.

100 mm x 150 mm x 24 mm SNR
7020HVUJ84A High precision angular contact ball
bearings

Bearing No. 7020HVUJ84A

d	100 mm
D	150 mm
B	24 mm
d1	115.8 mm
D1	134.2 mm
D2	141.51 mm
a	41 mm
Contact angle	25 °
rs min	1.5 mm
r1s min	0.6 mm
f0	16.18
Precision class	P4
Mass	1.25 kg
Dynamic load, C	71.2 kN
Static load, C0	73.4 kN
Fatigue limit load, Cu	3.7 kN
Nlim (oil)	13,000 rpm
Nlim (grease)	8,400 rpm
Axial displacement K Factor	0.43
Preload level	8
Preload value	1.88 kN
Axial rigidity	425 N/ μ m
Radial rigidity	852 N/ μ m
Min operating temperature, Tmin	-30 ° C

7020HVUJ84A Bearing 2D drawings and 3D CAD
models



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Max operating temperature, Tmax	120 ° C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.19 Hz
Characteristic outer ring frequency, BPF0	9.8 Hz
Characteristic inner ring frequency, BRFI	12.2 Hz
da min	108.5 mm
db min	108.5 mm
Da max	141.5 mm
Db max	141.5 mm
r1a max	0.6 mm
ra max	1.5 mm
D6	120.7 mm