



SNR 7209.C.G1UJ84 High precision angular contact ball bearings

Bearing No. 7209.C.G1UJ84

d	45 mm
D	85 mm
B	19 mm
d1	57.4 mm
D1	72.45 mm
D2	78.97 mm
a	18 mm
Contact angle	15 °
rs min	1.1 mm
r1s min	0.6 mm
f0	14.23
Precision class	P4
Mass	0.42 kg
Dynamic load, C	42.9 kN
Static load, C0	31 kN
Fatigue limit load, Cu	1.67 kN
Nlim (oil)	25,000 rpm
Nlim (grease)	16,000 rpm
Axial displacement K Factor	1.27
Preload level	8
Preload value	0.7 kN
Axial rigidity	118 N/ μ m
Radial rigidity	555 N/ μ m
Min operating temperature, Tmin	-30 ° C
Max operating temperature,	120 ° C

7209.C.G1UJ84 Bearing 2D drawings and 3D CAD models



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Tmax	
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	4.94 Hz
Characteristic outer ring frequency, BPF0	5.68 Hz
Characteristic inner ring frequency, BRFI	8.32 Hz
da min	52 mm
db min	52 mm
Da max	78 mm
Db max	78 mm
r1a max	0.6 mm
ra max	1 mm
D6	61.7 mm