



BEARINGS(UK)LTD.

120 mm x 180 mm x 28 mm SNR 7024CVUJ84
High precision angular contact ball bearings

Bearing No. 7024CVUJ84

| | |
|---------------------------------|--------------|
| d | 120 mm |
| D | 180 mm |
| B | 28 mm |
| d1 | 139.4 mm |
| D1 | 160.6 mm |
| D2 | 168.91 mm |
| a | 34 mm |
| Contact angle | 15 ° |
| rs min | 2 mm |
| r1s min | 1 mm |
| f0 | 16.1 |
| Precision class | P4 |
| Mass | 2.13 kg |
| Dynamic load, C | 100 kN |
| Static load, C0 | 109 kN |
| Fatigue limit load, Cu | 4.75 kN |
| Nlim (oil) | 11,500 rpm |
| Nlim (grease) | 7,700 rpm |
| Axial displacement K Factor | 0.84 |
| Preload level | 8 |
| Preload value | 1.58 kN |
| Axial rigidity | 227 N/ μ m |
| Radial rigidity | 1,139 N/ μ m |
| Min operating temperature, Tmin | -30 ° C |
| Max operating temperature, | 120 ° C |

7024CVUJ84 Bearing 2D drawings and 3D CAD models



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|---|----------|
| Tmax | |
| Characteristic cage frequency, FTF | 0.44 Hz |
| Characteristic rolling element frequency, BSF | 8.48 Hz |
| Characteristic outer ring frequency, BPF0 | 10.21 Hz |
| Characteristic inner ring frequency, BRFI | 12.79 Hz |
| da min | 130 mm |
| db min | 130 mm |
| Da max | 170 mm |
| Db max | 170 mm |
| r1a max | 1 mm |
| ra max | 2 mm |
| D6 | 145 mm |