



NTN Driveshaft CORP.



ML7004CVUJ74S Bearing 2D drawings and 3D CAD models

20 mm x 42 mm x 12 mm SNR
ML7004CVUJ74S angular contact ball bearings

Bearing No. ML7004CVUJ74S

| | |
|------------------------|-------------|
| Size | 20x42x12 mm |
| Bore Diameter | 20 mm |
| Outer Diameter | 42 mm |
| Width | 12 mm |
| d | 20 mm |
| D | 42 mm |
| B | 12 mm |
| C | 12 mm |
| Angle (°) | 15 ° |
| d1 | 26.6 mm |
| d2 | 24.65 mm |
| D1 | 37.05 mm |
| D2 | 38.65 mm |
| a | 11 mm |
| Contact angle | 17 ° |
| rs min | 0.6 mm |
| r1s min | 0.3 mm |
| f0 | 7.42 |
| Precision class | P4S |
| Mass | 0.06 kg |
| Dynamic load, C | 6.5 kN |
| Static load, C0 | 3.05 kN |
| Fatigue limit load, Cu | 0.19 kN |
| Nlim (oil) | 71,000 rpm |
| Nlim (grease) | 52,000 rpm |
| | |



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|---|----------------|
| Axial displacement K Factor | 1.74 |
| Preload level | 7 |
| Preload value | 0.035 kN |
| Axial rigidity | 27 N/ μ m |
| Radial rigidity | 132 N/ μ m |
| Min operating temperature, T _{min} | -30 ° C |
| Max operating temperature, T _{max} | 120 ° C |
| Characteristic cage frequency, FTF | 0.41 Hz |
| Characteristic rolling element frequency, BSF | 5.27 Hz |
| Characteristic outer ring frequency, BPF0 | 5.77 Hz |
| Characteristic inner ring frequency, BRFI | 8.23 Hz |
| da min | 24.5 mm |
| db min | 24.5 mm |
| Da max | 37.5 mm |
| Db max | 37.5 mm |
| r1a max | 0.3 mm |
| ra max | 0.6 mm |
| D6 | 28.6 mm |