



## BEARINGS(UK)LTD.

90 mm x 140 mm x 24 mm SNR 7018.HV.U.J74  
High precision angular contact ball bearings

Bearing No. 7018.HV.U.J74

|                                 |            |
|---------------------------------|------------|
| d                               | 90 mm      |
| D                               | 140 mm     |
| B                               | 24 mm      |
| d1                              | 105.8 mm   |
| D1                              | 124.2 mm   |
| D2                              | 131.61 mm  |
| a                               | 39 mm      |
| Contact angle                   | 25 °       |
| rs min                          | 1.5 mm     |
| r1s min                         | 0.6 mm     |
| f0                              | 15.94      |
| Precision class                 | P4         |
| Mass                            | 1.16 kg    |
| Dynamic load, C                 | 67.8 kN    |
| Static load, C0                 | 65.7 kN    |
| Fatigue limit load, Cu          | 3.45 kN    |
| Nlim (oil)                      | 14,000 rpm |
| Nlim (grease)                   | 9,100 rpm  |
| Axial displacement K Factor     | 0.46       |
| Preload level                   | 7          |
| Preload value                   | 0.6 kN     |
| Axial rigidity                  | 260 N/ μ m |
| Radial rigidity                 | 556 N/ μ m |
| Min operating temperature, Tmin | -30 ° C    |
| Max operating temperature,      | 120 ° C    |

7018.HV.U.J74 Bearing 2D drawings and 3D CAD models



## BEARINGS(UK)LTD.

|   |          |
|---|----------|
| Tmax  |          |
| Characteristic cage frequency, FTF            | 0.44 Hz  |
| Characteristic rolling element frequency, BSF | 7.52 Hz  |
| Characteristic outer ring frequency, BPF0     | 8.81 Hz  |
| Characteristic inner ring frequency, BRFI     | 11.19 Hz |
| da min  | 98.5 mm  |
| db min  | 98.5 mm  |
| Da max  | 131.5 mm |
| Db max  | 131.5 mm |
| r1a max                                       | 0.6 mm   |
| ra max  | 1.5 mm   |
| D6  | 110.7 mm |