

# ISO 7317 BDT angular contact ball bearings

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|                        |            |
|------------------------|------------|
| Size (mm)              | 25x52x18   |
| Bore Diameter (mm)     | 25,000     |
| Outer Diameter (mm)    | 52,000     |
| Width (mm)             | 18,000     |
| d                      | 25,000 mm  |
| D                      | 52,000 mm  |
| B                      | 18,000 mm  |
| C                      | 18,000 mm  |
| d1                     | 34.7 mm    |
| D1                     | 43.3 mm    |
| rs min                 | 1 mm       |
| Radial clearance class | CN         |
| Precision class        | P0         |
| Mass                   | 0.16 kg    |
| Dynamic load, C        | 19.1 kN    |
| Static load, C0        | 14.7 kN    |
| Fatigue limit load, Cu | 0.82 kN    |
| f0                     | 14.4       |
| Nref                   | 11,000 rpm |
| Nlim                   | 12,000 rpm |

|   |         |
|---|---------|
| Min operating temperature, $T_{min}$          | -20 °C  |
| Max operating temperature, $T_{max}$          | 120 °C  |
| Characteristic cage frequency, FTF            | 0.41 Hz |
| Characteristic rolling element frequency, BSF | 5.28 Hz |
| Characteristic outer ring frequency, BPF0     | 4.08 Hz |
| Characteristic inner ring frequency, BRFI     | 5.92 Hz |
| $d_a$ min                                     | 31 mm   |
| $D_a$ max                                     | 46 mm   |
| $r_a$ max                                     | 1 mm    |